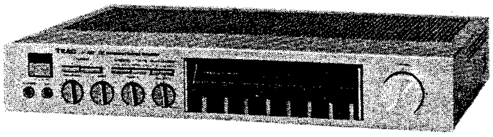
TEAC®



SERVICE MANUAL

A-707/A-505

DC Integrated Stereo Amplifier

Effective: July, 1982

5704014400

1 SPECIFICATIONS

A-707

Type DC Integrated Stereo Amplifier

Rated Output Power
(Both Channele, 8 ohms)
55 W + 55 W (1 kHz, 0.1% T.H.D.)
50 W + 50 W (30 Hz ~ 20 kHz, 0.05% T.H.D.)

Total Harmonic Distotion
0.05% (30 Hz ~ 20 kHz, at 50 W + 50 W Output Power)

Output Bandwidth
IHF, -3 dB, 10 Hz ~ 50 kHz

Frequency Response
TUNER/AUX/TAPE 1, 2 to SP out 10 Hz ~ 55 kHz + 0, -2 dB
PHONO to REC OUT, 20 Hz ~ 20 kHz ±0.5 dB (RIAA)

Input Sensitivity
PHONO MC 220 μV/100 ohms
PHONO MM 2.5 mV/47 k ohms
TUNER/AUX/TAPE 1, 2 150 mV/47 k ohms
MIC 0.775 mV/4.7 k ohms

Rated Output Voltage/Impedance
TAPE REC 1, 2 150 mV/47 k ohms

Signal-to-Noise Ratio
(IHF A Network, Short Circuit)
PHONO MC 66 dB
PHONO MM 75 dB
TUNER/AUX/TAPE 1, 2 92 dB

Tone Control
Base ±10 dB, 100 Hz
Treble ±10 dB, 10 kHz

Subsonic Filter
15 Hz, 6 dB/oct

Muting 20 dB

Power Requirementes
100/120/220/240 V AC 50/60 Hz, 98 W (General Export Model)
120 V AC 60 Hz, 230 VA (Canad Model)
220 V AC 50 Hz, 260 W (Europe Model)
240 V AC 50 Hz, 350 W (U.K./Aus. Model)

Dimensions (W x H x D)
432 x 72 x 298 mm (17" x 2-13/16" x 11-3/4")

Weight 5.5 kg (12-2/16 lbs) net

A-505

Type DC Integrated Stereo Amplifier

Rated Output Power
(Both channel, 8 ohms)
33 W + 33 W (1 kHz, 0.1% T.H.D.)
30 W + 30 W (30 Hz ~ 20 kHz, 0.06% T.H.D.)

Total Harmonic Distortion
0.06% (30 Hz ~ 20 kHz at 30 W + 30 W Output Power)

Output Bandwidth
IHF, -3 dB, 10 Hz ~ 50 kHz

Frequency Response
TUNER/AUX/TAPE to SP out 10 Hz ~ 55 kHz + 0, -2 dB
PHONO to REC OUT, 20 Hz ~ 20 kHz ±0.5 dB (RIAA)

Input Sensitivity
PHONO MM 2.5 mV/47 k ohms
TUNER/AUX/TAPE 150 mV/47 k ohms

Rated Output Voltage/Impedance
TAPE REC 150 mV/47 k ohms

Signal-to-Noise Ratio
(IHF A Network, Short Circuit)
PHONO MM 75 dB
TUNER/AUX/TAPE 92 dB

Tone Control
Bass ±10 dB, 100 Hz
Treble ±10 dB, 10 kHz

Power Requirements
100/120/220/240 V AC 50/60 Hz, 60 W (General Export Model)
120 V AC 60 Hz, 150 VA (Canada Model)
220 V AC 50 Hz, 160 W (Europe Model)
240 V AC 50 Hz, 210 W (U.K./Aus. Model)

Dimensions (W x H x D)
432 x 72 x 298 mm (17" x 2-13/16" x 11-3/4")

Weight 5.0 kg (11 lbs) net

- Improvements may result in specification or feature changes without notice.
- Photos may differ slightly from production models.

NOTES

1. **In this manual, 0 dB is referenced to 1 V.**
2. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components – refer to the appropriate parts list and ensure exact replacements.
3. PC boards shown are viewed from foil side.

2 ADJUSTMENTS

A-707 only

2-1 INITIAL SETTINGS

Without applying AC power, set the controls as shown below.

Control	Position or Setting
SPEAKERS	A
SUBSONIC	OUT
MODE	ST
MUTING	OUT
MIC MIXING	0
BASS	0
TREBLE	0
BALANCE	0
TAPE COPY	OUT

Control	Position or Setting
TAPE 1	OUT
TAPE 2	OUT
TUNER	OUT
AUX	IN
PHONO MM	OUT
PHONO MC	OUT
LOUDNESS	OUT
VOLUME	MIN

2-2 ADJUSTMENTS LOCATION

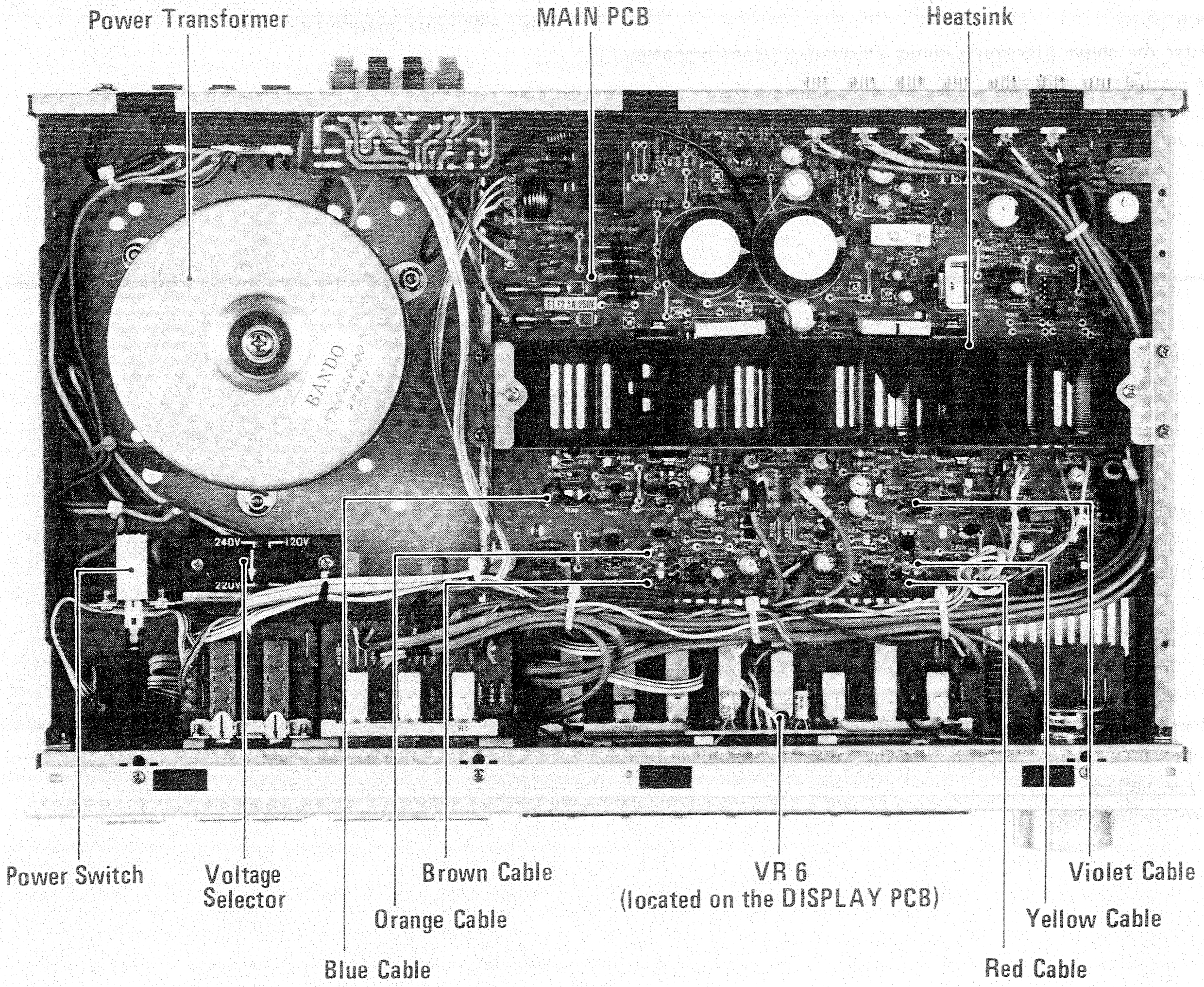

Power Transformer
MAIN PCB
Heatsink
240V
120V
220V
Power Switch
Voltage Selector
Brown Cable
Orange Cable
Blue Cable
VR 6
(located on the DISPLAY PCB)
Violet Cable
Yellow Cable
Red Cable

Fig. 2-1

2-3 DC BALANCE CHECK

1. Connect the DC voltmeter to SPEAKERS A terminal.
2. Depress POWER switch to ON.
3. Confirm the DC voltmeter indication within 0 V ±50 mV.
4. If the DC voltmeter indicates over +50 mV, cut the orange cable between 3 and 3 terminals (for L-ch) or the yellow cable between 4 and 4 terminals (for R-ch) on the MAIN PCB.
5. If the DC voltmeter indicates less than -50 mV, cut the brown cable between 1 and 1 terminals (for L-ch) or the red cable between 2 and 2 terminals (for R-ch) on the MAIN PCB.

2-4 IDLING CURRENT CHECK

1. Connect the DC voltmeter between TP-3 (L-ch)/TP-5 (R-ch) and TP-1 (L-ch)/TP-6 (R-ch).
2. Confirm the DC voltmeter indication within 5 mV when POWER is ON after 10 seconds.
3. If the DC voltmeter indicates over 5 mV cut the blue cable between 6 and 6 terminals for LEFT channel or the violet cable between 7 and 7 terminals for RIGHT channel on the MAIN PCB.
4. After the above procedures, allow 10 minites for the amplifier to warm up completely.
5. Confirm the DC voltmeter indication which should be within 2 to 25 mV.

2-5 PEAK LEVEL DISPLAY ADJUSTMENT

1. Connect the AC voltmeter to SPEAKERS A terminal.
2. Set the VOLUME control to MAX.
3. Apply a 1 kHz input signal to provide an output voltage of 25 V to the AUX terminal.
4. Adjust VR6 on the DISPLAY PCB so that the 50 W LED in the PEAK LEVEL DISPLAY lights up with the full intensity, but the 100 W LED do not light.

2-6 REALY OPERATION CHECK

1. Apply 1 kHz/150 mV (-16.5 dB) to the AUX terminal.
2. Adjust the VOLUME control so that output voltage is 1 V at the SPEAKER terminal.
3. Apply a +2.5 V or -2.5 V DC to the TP-7 to couse the realy RY1 to break immediately.
4. Remove the DC signal from the TP-7.
5. Adjust the VOLUME control so that output voltage is 0.5 V at the SPEAKER terminal.
6. Shortcircuit the SPEAKER terminal between + and – so that the relay RY1 break immediately.

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3 VOLTAGE CONVERSION
(FOR GENERAL EXPORT MODELS)

BE SURE TO REMOVE THE POWER CORD FROM THE AC OUTLET BEFORE REMOVING THE METAL COVER AND REPOSITIONING THE VOLTAGE CONVERSION PLUG.

1. Remove the metal housing covering the top and sides of the unit by removing the screws from each side of the metal cover.
2. Locate the voltage selector plug on the left side of the unit.
3. Remove the plug by pulling it out, then re-insert it so that the arrow on the plug is aligned with the white line indicating the proper voltage.
4. Replace the cover.

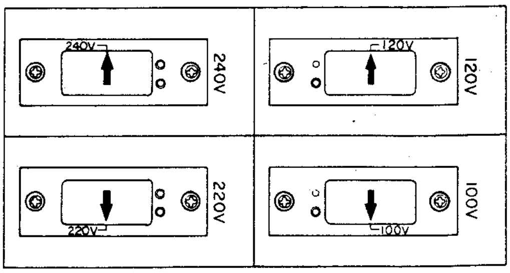


Fig. 3-1

4 BLOCK DIAGRAM

A-707

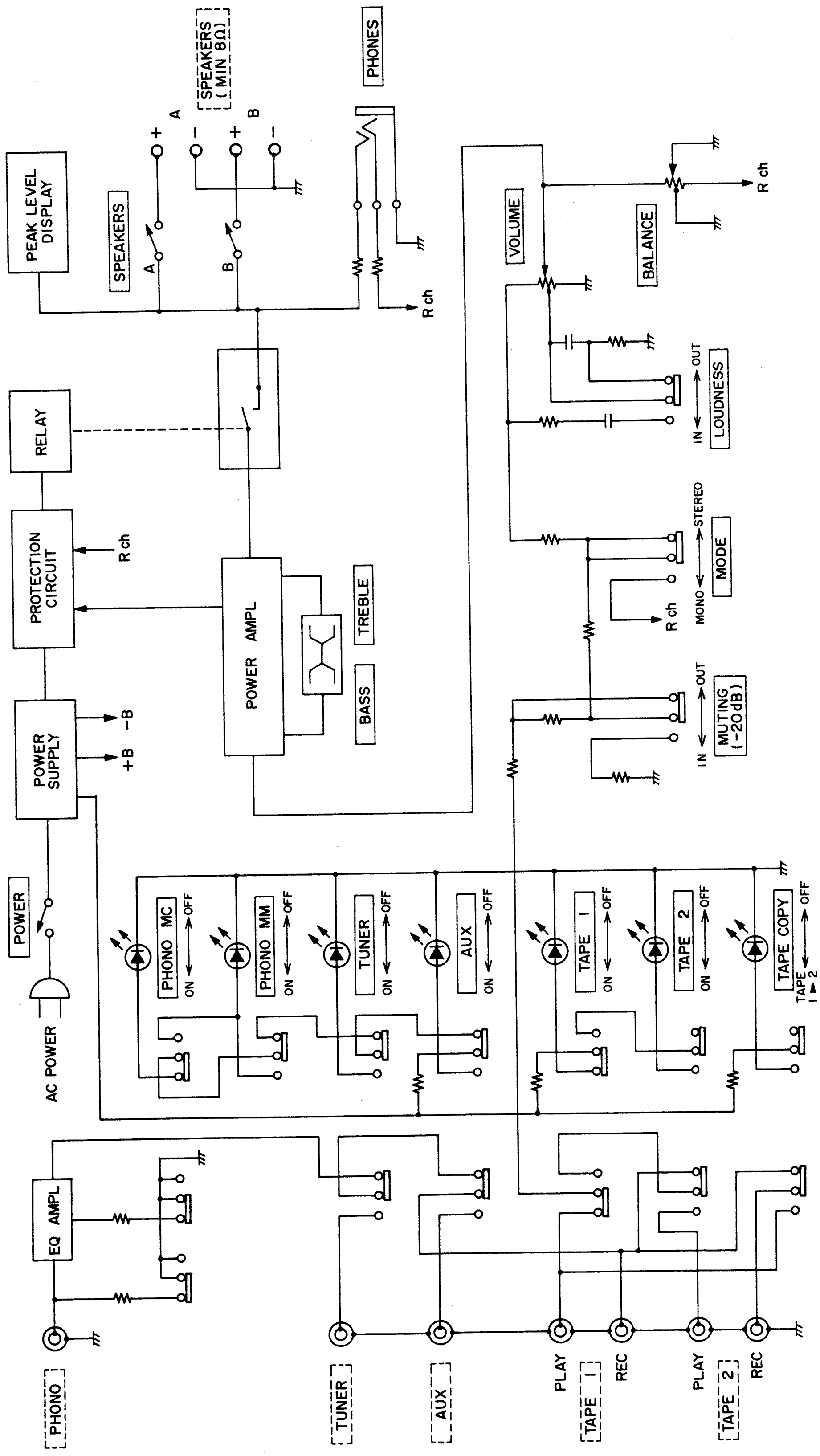

PEAK LEVEL DISPLAY
SPEAKERS
A
B
+
−
SPEAKERS (MIN 8Ω)
PHONES
R ch
RELAY
PROTECTION CIRCUIT
POWER SUPPLY
+B
−B
POWER AMPL
TREBLE
BASS
VOLUME
BALANCE
IN
OUT
LOUDNESS
MONO
STEREO
MODE
MUTING (−20dB)
PHONO MC
PHONO MM
TUNER
AUX
TAPE 1
TAPE 2
TAPE COPY
TAPE 1▶2
ON
OFF
POWER
AC POWER
EQ AMPL
PHONO
PLAY
REC

Fig. 4-1

A-505

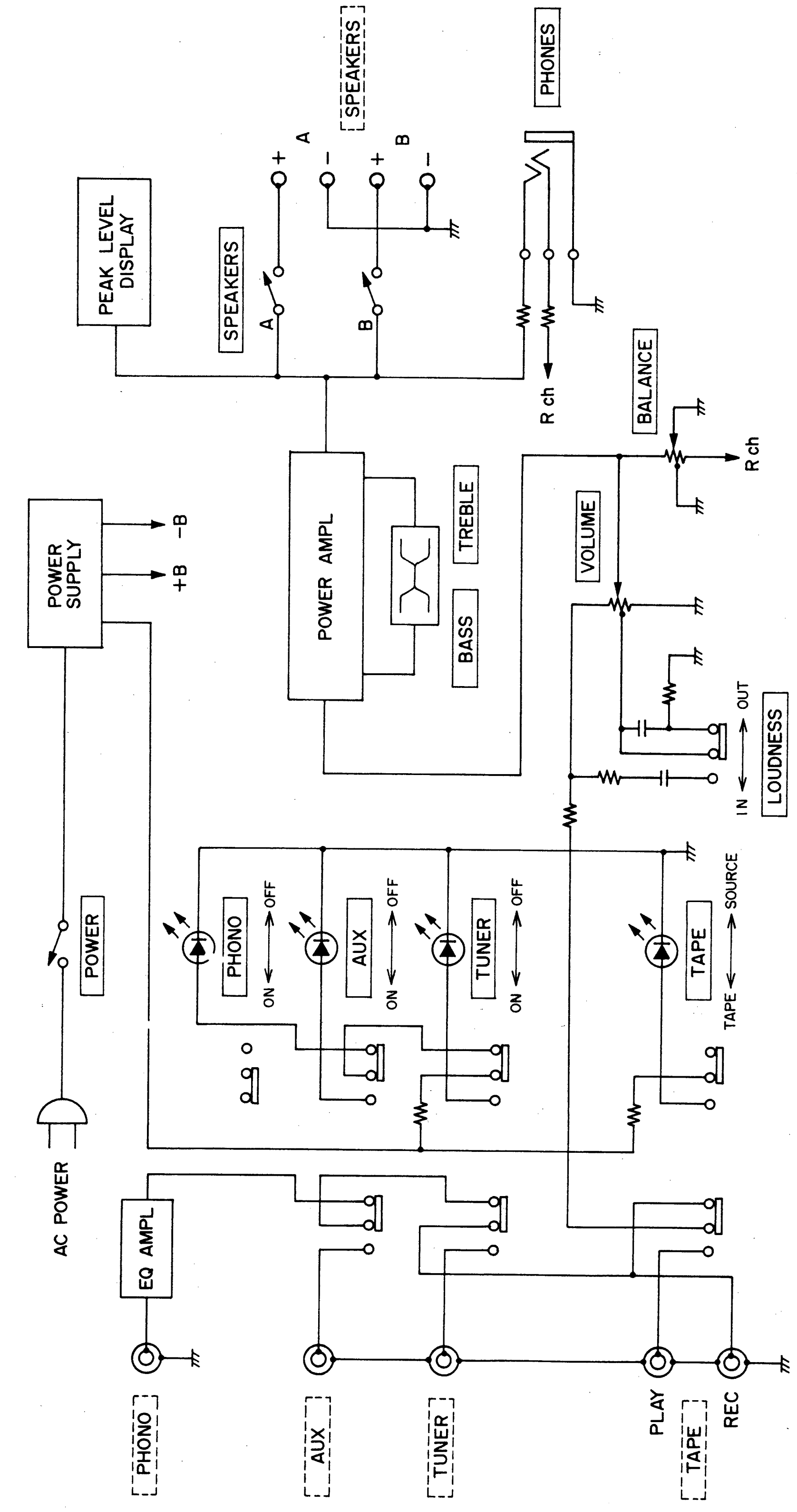
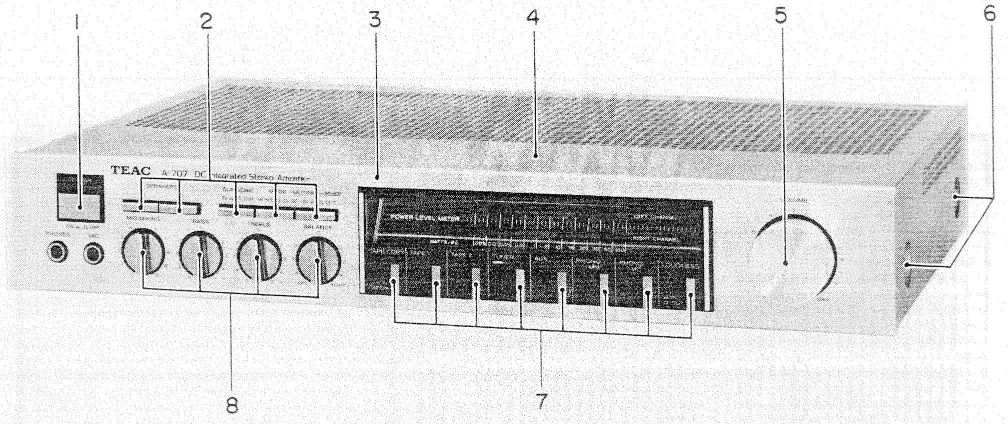

PEAK LEVEL DISPLAY
SPEAKERS
A
B
+
−
SPEAKERS
PHONES
R ch
POWER SUPPLY
+B
−B
POWER AMPL
BASS
TREBLE
VOLUME
BALANCE
R ch
LOUDNESS
IN
OUT
POWER
PHONO
AUX
TUNER
ON
OFF
TAPE
TAPE
SOURCE
AC POWER
EQ AMPL
PHONO
AUX
TUNER
PLAY
TAPE
REC

Fig. 4-2

5 PARTS LOCATION AND PARTS LIST

A-707

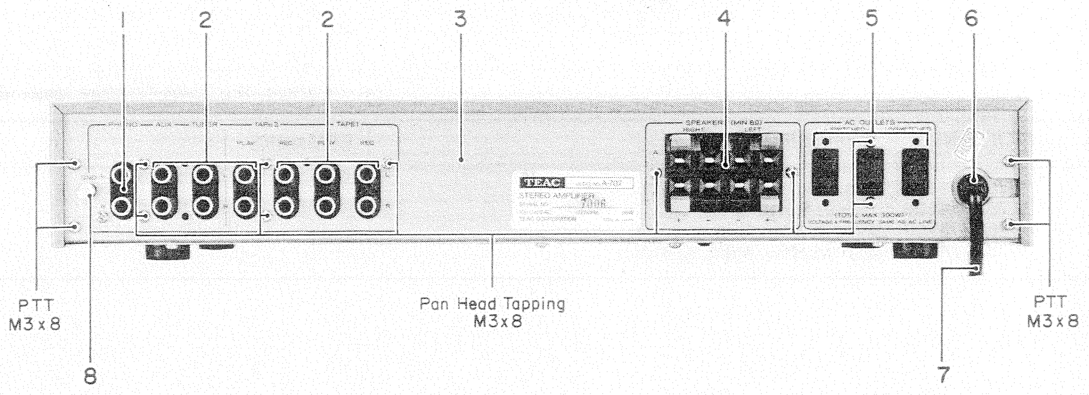
PARTS LOCATION-1



Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	5800379500	Button, Power	
1 - 2	5800379100	Button, Push; A	
1 - 3	*5620078800	Panel Assy, Front	
1 - 4	*5760108100	Cover, Top; A	
1 - 5	5760242200	Knob, VR	
1 - 6	*5783114008	Screw, M4 x 8 (BLK)	
1 - 7	5800379200	Button, Push; B	
1 - 8	5760242100	Knob, Tone	

PARTS LOCATION-2

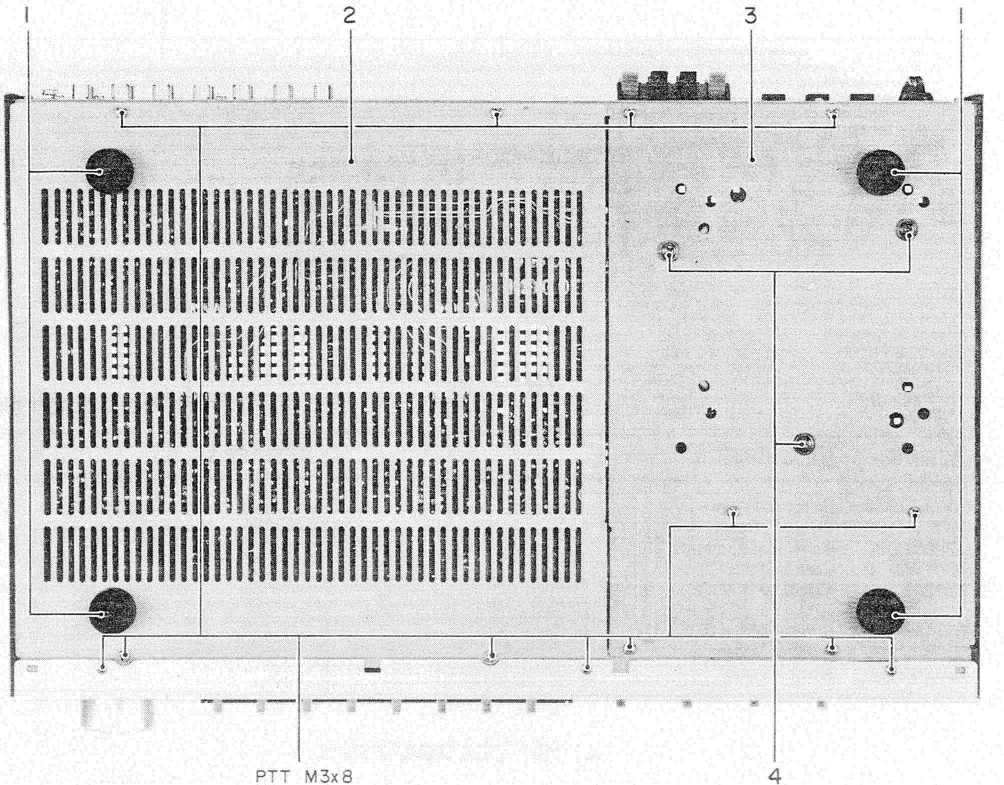


Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	5760142100	Jack, Pin; 2P	
2 - 2	5330505200	Jack, Pin; 6P	
2 - 3	*5760246600	Panel, Rear; C [C, GE]	
	*5760246700	Panel, Rear; D [E, UK, A]	
2 - 4	*5760102700	Terminal, Push; 8P	
2 - 5	⚠*5760337200	Outlet, AC Power; 3P [C]	
	⚠*5760337300	Outlet, AC Power; 3P [GE]	
2 - 6	*5800136400	Strain Relief, Cord; 4P-4 [C, GE]	
	*5800136500	Strain Relief, Cord; 4K-4 [E, UK, A]	
2 - 7	⚠*5760098100	Cord, AC Power [C, GE]	
	⚠*5760098200	Cord, AC Power [E]	
	⚠*5760098300	Cord, AC Power [UK]	
	⚠*5760098400	Cord, AC Power [A]	
2 - 8	*5760081300	Nut, GND	
	*5785213000	Washer, Fiber (BLK) $\phi 3 \times \phi 6 \times t0.5$	

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

PARTS LOCATION-3



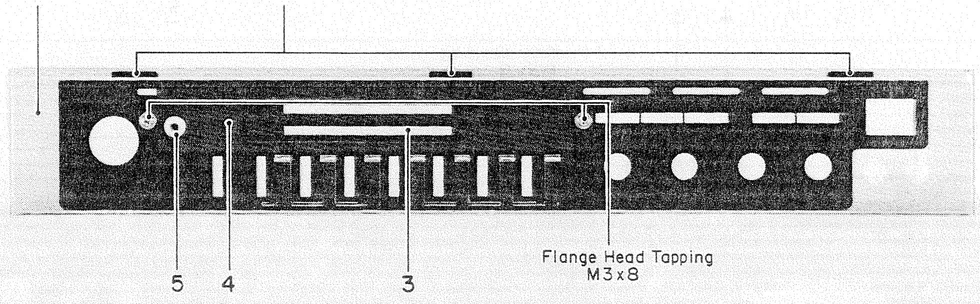
Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	*5760241100	Foot	
3 - 2	*5760244100	Cover, Bottom; S	
3 - 3	*5760243700	Frame, Transformer	
3 - 4	*5783114008	Screw, M4 x 8 (BLK)	

INCLUDED ACCESSORY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5700036400	A-707 Owner's Manual	

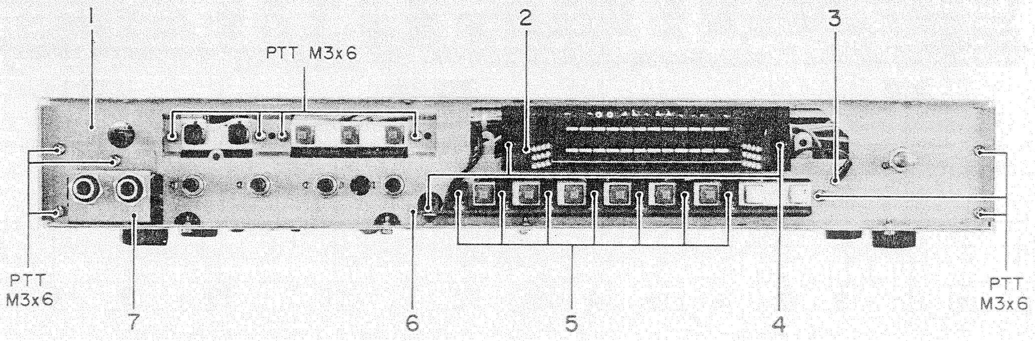
PARTS LOCATION-4



Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	*5620078800	Panel Assy, Front	
4 - 2	*5760095500	Cushion, A	
4 - 3	*5760249100	Plate, Meter; Acrylic	
4 - 4	*5620078700	Escutcheon Assy, Meter	
4 - 5	*5760256000	Bush, Rubber	

PARTS LOCATION-5

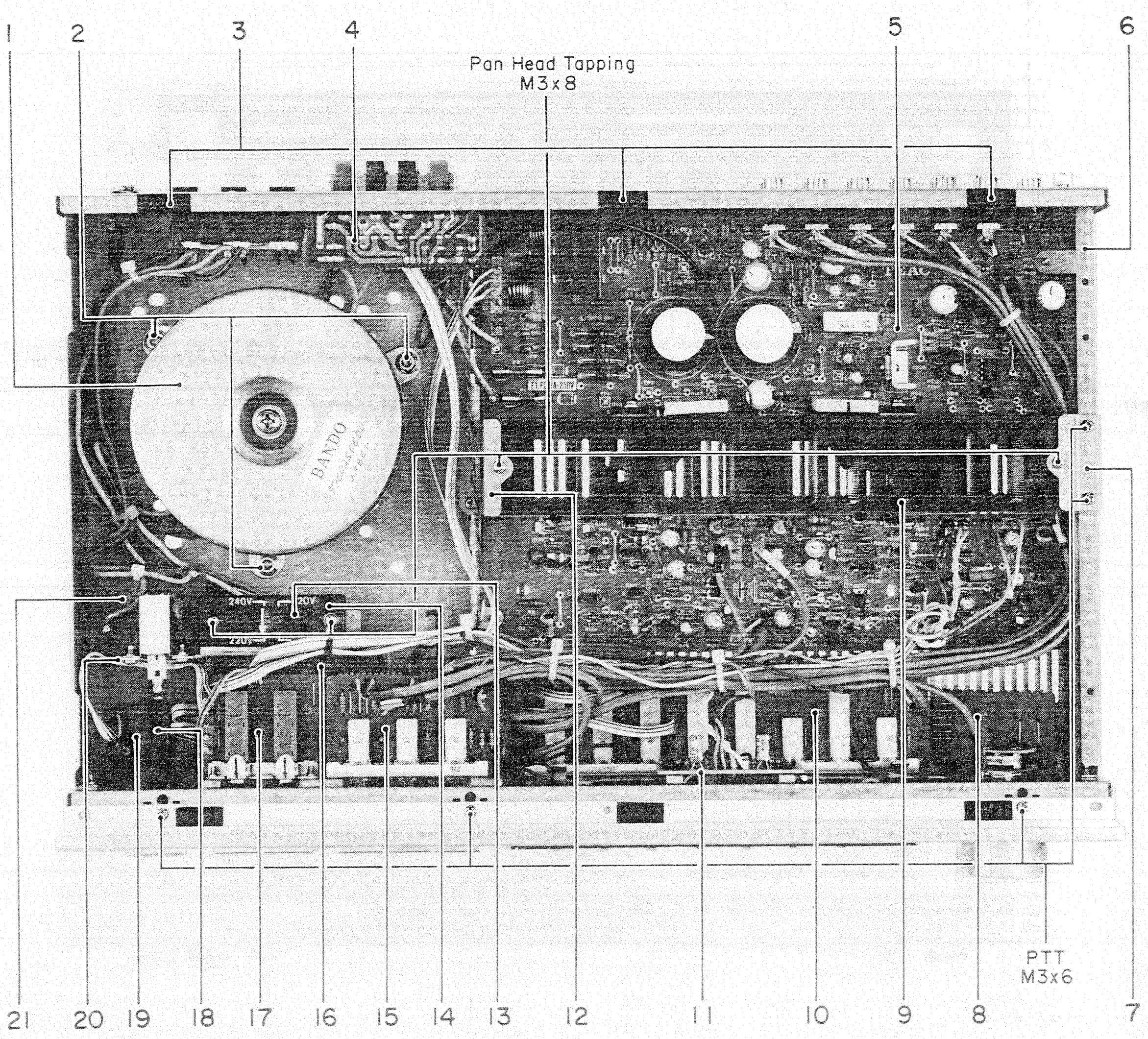


Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5 - 1	*5760243000	Chassis, Front	
5 - 2	5760339600	Meter Assy, Power Level	
5 - 3	5760338700	Lamp, 9V 150mA (GRN)	
5 - 4	*5534878000	Rivet, Push	
5 - 5	*5760243600	Holder, LED	
5 - 6	*5760316500	PCB Assy, TAPE LED [C]	
	*5760316510	PCB Assy, TAPE LED [All except C]	
5 - 7	*5760243900	Bracket, Jack	

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

PARTS LOCATION-6

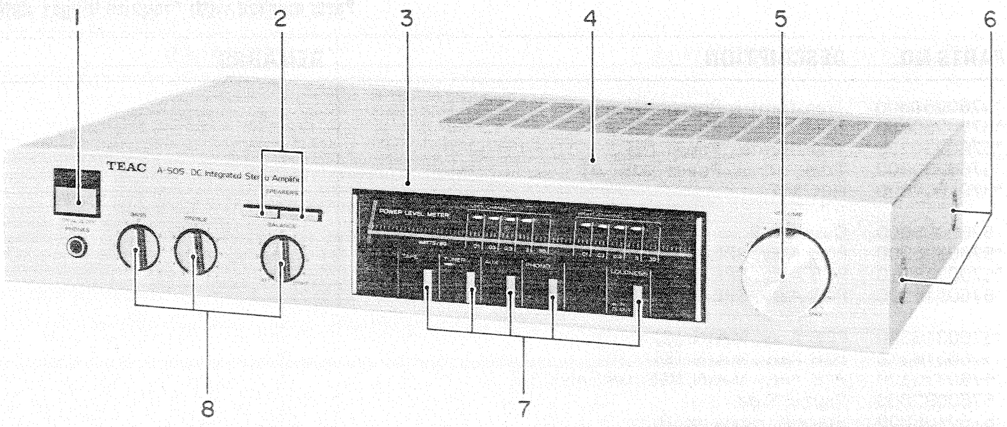

1
2
3
4
5
6
Pan Head Tapping
M3x8
240V
220V
20V
BANDO
TEAC
PTT
M3x6
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7

Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
6 - 1	⚠*5760250500	Transformer, Power [C]	
	⚠*5760250600	Transformer, Power [GE]	
	⚠*5760250700	Transformer, Power [E]	
	⚠*5760250800	Transformer, Power [UK, A]	
6 - 2	*5781904000	Nut, M4	
6 - 3	*5760095600	Cushion, B	
6 - 4	*5760316900	PCB Assy, SPEAKER TERMINAL [C]	
	*5760316910	PCB Assy, SPEAKER TERMINAL [E]	
	*5760316920	PCB Assy, SPEAKER TERMINAL [GE, UK, A]	
6 - 5	*5760316300	PCB Assy, MAIN [C]	
	*5760316310	PCB Assy, MAIN [E]	
	*5760316320	PCB Assy, MAIN [GE, UK, A]	
6 - 6	*5760092600	Frame, Side	
6 - 7	*5760108800	Bracket, Heatsink; R	
6 - 8	*5760316600	PCB Assy, VOLUME [C]	
	*5760316610	PCB Assy, VOLUME [All except C]	
6 - 9	*5760121500	Heatsink, B	
6 - 10	*5760316400	PCB Assy, SELECTOR SW [C]	
	*5760316410	PCB Assy, SELECTOR SW [All except C]	
6 - 11	*5760318000	PCB Assy, DISPLAY [C]	
	*5760318010	PCB Assy, DISPLAY [All except C]	
6 - 12	*5760108700	Bracket, Heatsink; L	
6 - 13	⚠*5133014000	Plug, Voltage Selector [GE]	
6 - 14	⚠*5332011200	Socket, Voltage Selector [GE]	
6 - 15	*5760317000	PCB Assy, MUTING [C]	
	*5760317010	PCB Assy, MUTING [All except C]	
6 - 16	*5760316700	PCB Assy, TONE & MIC [C]	
	*5760316710	PCB Assy, TONE & MIC [All except C]	
6 - 17	*5760317100	PCB Assy, SPEAKER SW [C]	
	*5760317110	PCB Assy, SPEAKER SW [All except C]	
6 - 18	*5760093900	Rod, Power Switch	
6 - 19	*5760316800	PCB Assy, JACK [C]	
	*5760316810	PCB Assy, JACK [All except C]	
6 - 20	*5760243800	Bracket, Power Switch	
6 - 21	*5760318000	PCB Assy, POWER SWITCH [C]	
	*5760318010	PCB Assy, POWER SWITCH [GE]	
	*5760318020	PCB Assy, POWER SWITCH [E]	
	*5760318030	PCB Assy, POWER SWITCH [UK, A]	

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

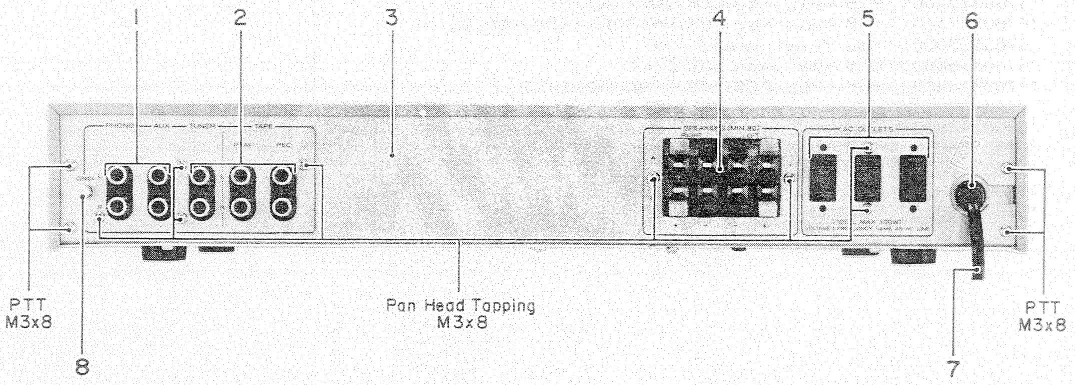
A-505
PARTS LOCATION-1



Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	5800379500	Button, Power	
1 - 2	5800379100	Button, Push; A	
1 - 3	*5620078600	Panel Assy, Front	
1 - 4	*5760249000	Cover, Top; B	
1 - 5	5760242200	Knob, VR	
1 - 6	*5783114008	Screw, M4 x 8 (BLK)	
1 - 7	5800379200	Button, Push; B	
1 - 8	5760242100	Knob, Tone	

PARTS LOCATION-2

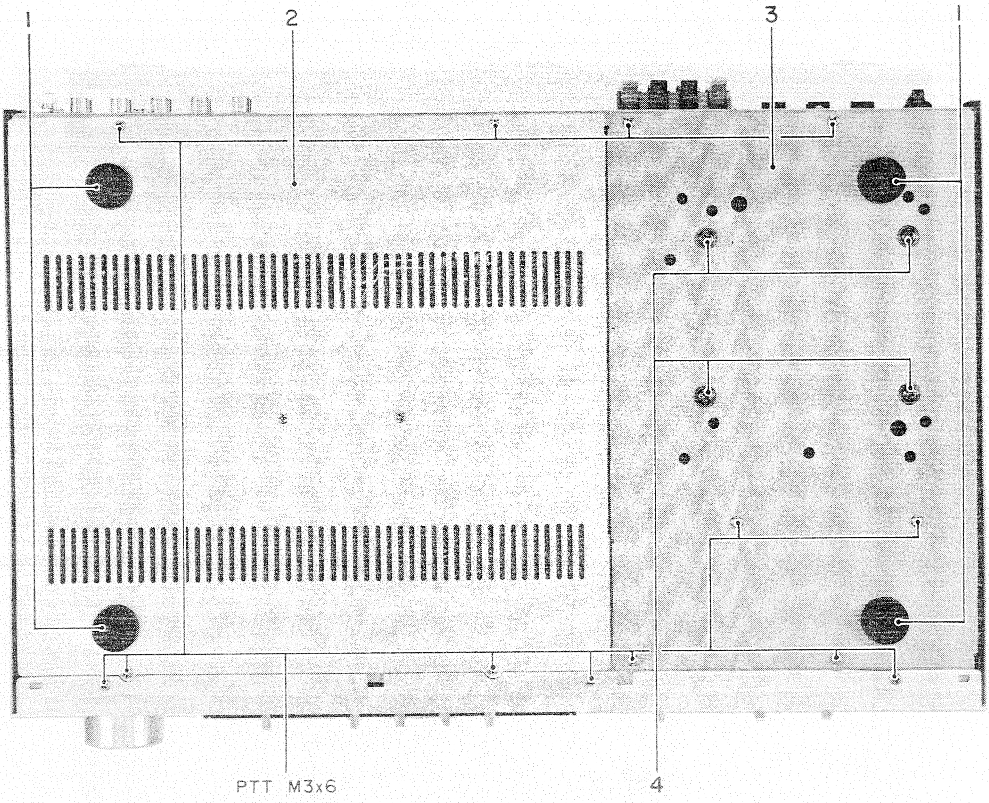


Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
2 - 1	5760339000	Jack, Pin; 4P	
2 - 2	5760338900	Jack, Pin; 6P	
2 - 3	*5760246400	Panel, Rear; E [C, GE]	
	*5760246500	Panel, Rear; F [E, UK, A]	
2 - 4	*5760102700	Terminal, Push; 8P	
2 - 5	⚠*5760337200	Outlet, AC Power; 3P [C]	
	⚠*5760337300	Outlet, AC Power; 3P [GE]	
2 - 6	*5800136400	Strain Relief, Cord; 4P-4 [C, GE]	
	*5800136500	Strain Relief, Cord; 4K-4 [E, UK, A]	
2 - 7	⚠*5760098100	Cord, AC Power [C, GE]	
	⚠*5760098200	Cord, AC Power [E]	
	⚠*5760098300	Cord, AC Power [UK]	
	⚠*5760098400	Cord, AC Power [A]	
2 - 8	*5760081300	Nut, GND	
	*5785213000	Washer, Fiber (BLK) $\phi 3 \times \phi 6 \times t0.5$	

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

PARTS LOCATION-3



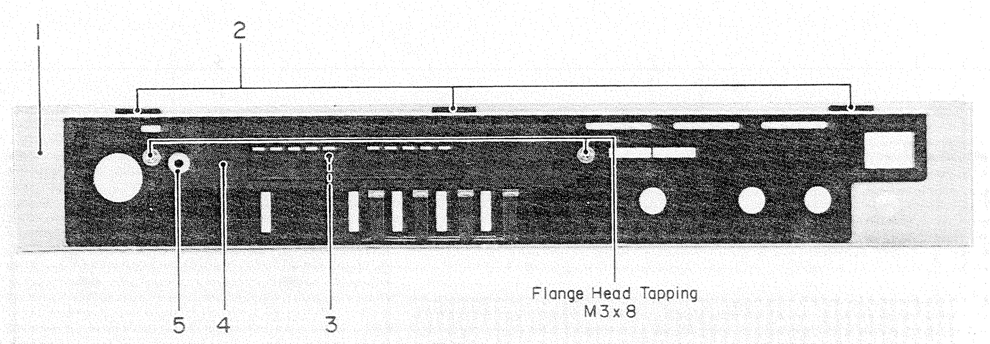
Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
3 - 1	*5760241100	Foot	
3 - 2	*5760244200	Cover, Bottom; A	
3 - 3	*5760243700	Frame, Transformer	
3 - 4	*5783114008	Screw, M4 x 8 (BLK)	

INCLUDED ACCESSORY

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	5700036300	A-505 Owner's Manual	

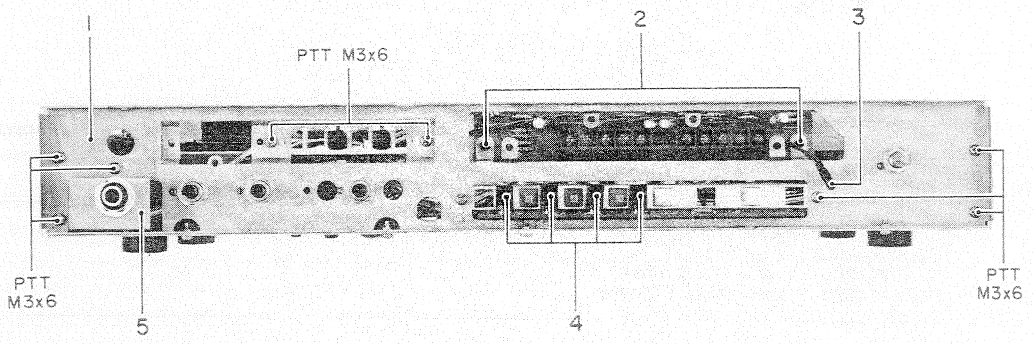
PARTS LOCATION-4


1
2
5
4
3
Flange Head Tapping
M3x8

Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4 - 1	*5620078600	Panel Assy, Front	
4 - 2	*5760095500	Cushion, A	
4 - 3	*5760242500	Plate, Meter; Acrylic	
4 - 4	*5620078500	Escutcheon Assy, Meter	
4 - 5	*5760256000	Bush, Rubber	

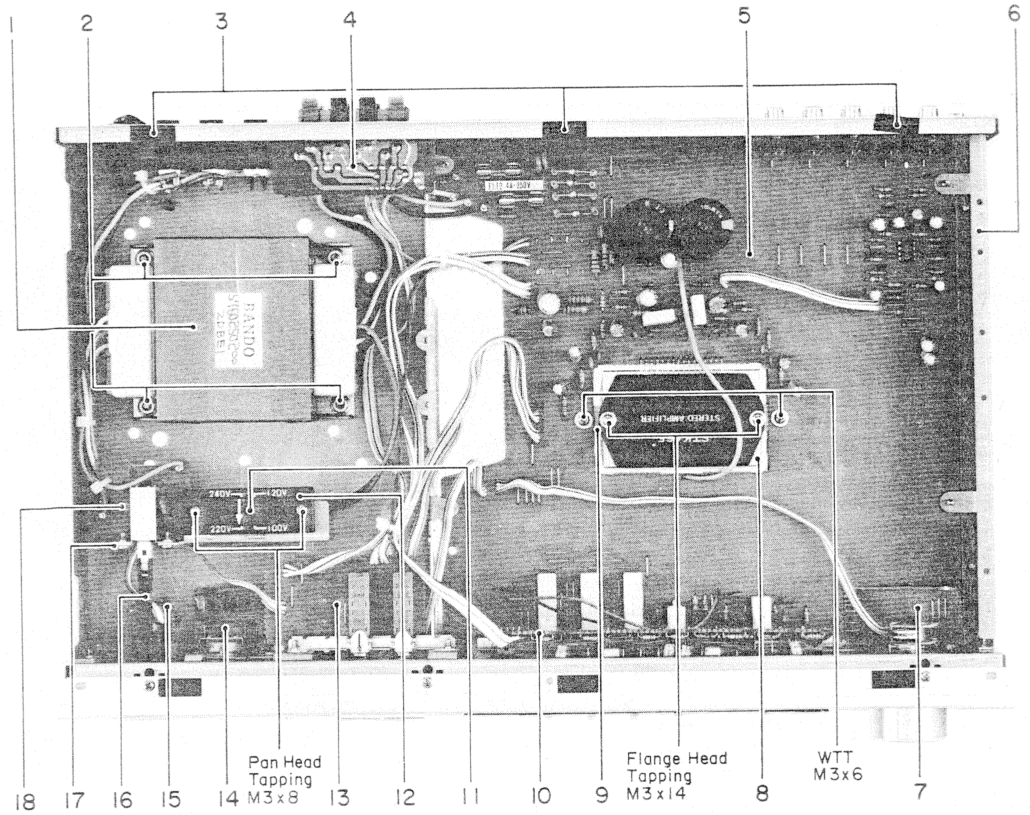
PARTS LOCATION-5


1
PTT M3x6
2
3
PTT
M3x6
5
4
PTT
M3x6

Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5 - 1	*5760243000	Chassis, Front	
5 - 2	*5534878000	Rivet, Push	
5 - 3	5760338700	Lamp, 9V 150mA (GRN)	
5 - 4	*5760243600	Holder, LED	
5 - 5	*5760244000	Bracket, Jack; S	

PARTS LOCATION-6



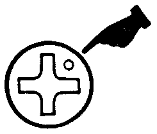
Parts marked with *require longer deliver time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
6 - 1	⚠*5760250100	Transformer, Power [C]	
	⚠*5760250200	Transformer, Power [GE]	
	⚠*5760250300	Transformer, Power [E]	
	⚠*5760250400	Transformer, Power [UK, A]	
6 - 2	*5781904000	Nut, M4	
6 - 3	*5760095600	Cushion, B	
6 - 4	*5760316100	PCB Assy, SPEAKER TERMINAL [C]	
	*5760316110	PCB Assy, SPEAKER TERMINAL [GE, UK, A]	
	*5760316120	PCB Assy, SPEAKER TERMINAL [E]	
6 - 5	*5760315500	PCB Assy, MAIN [C]	
	*5760315510	PCB Assy, MAIN [E]	
	*5760315520	PCB Assy, MAIN [GE, UK, A]	
6 - 6	*5760092600	Frame, Side	
6 - 7	*5760315600	PCB Assy, VOLUME [C]	
	*5760315610	PCB Assy, VOLUME [All except C]	
6 - 8	*5760255900	Heatsink, IC	
6 - 9	*5760247100	Bracket, Heatsink	
6 - 10	*5760315800	PCB Assy, DISPLAY [C]	
	*5760315810	PCB Assy, DISPLAY [All except C]	
6 - 11	*5133014000	Plug, Voltage Selector [GE]	
6 - 12	*5332011200	Socket, Voltage Selector [GE]	
6 - 13	*5760316000	PCB Assy, SPEAKER SW [C]	
	*5760316010	PCB Assy, SPEAKER SW [GE, UK, A]	
	*5760316020	PCB Assy, SPEAKER SW [E]	
6 - 14	*5760315700	PCB Assy, TONE [C]	
	*5760315710	PCB Assy, TONE [All except C]	
6 - 15	*5760315900	PCB Assy, HEADPHONE [C]	
	*5760315910	PCB Assy, HEADPHONE [All except C]	
6 - 16	*5760093900	Rod, Power Switch	
6 - 17	*5760243800	Bracket, Power Switch	
6 - 18	*5760316200	PCB Assy, POWER SWITCH [C]	
	*5760316210	PCB Assy, POWER SWITCH [GE]	
	*5760316220	PCB Assy, POWER SWITCH [E]	
	*5760316230	PCB Assy, POWER SWITCH [UK, A]	

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

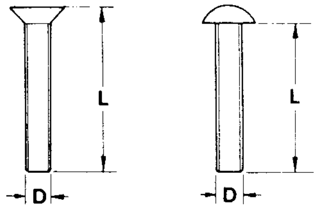
ASSEMBLING HARDWARE CODING LIST

All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted. ISO screws have the head inscribed with a point as in the figure to the right.

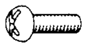
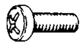
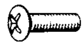
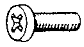
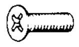
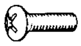
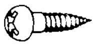
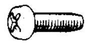
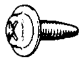
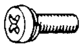
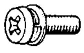
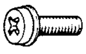
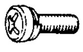
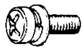


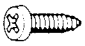
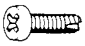
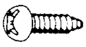
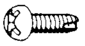
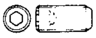
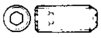
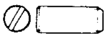
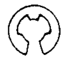
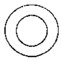
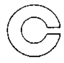
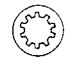
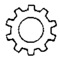
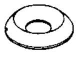
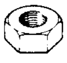
FOR EXAMPLE:

```
B  M 3 x 6
:  :  :  :
:  :  :  :.............Length in mm (L)
:  :  :................Diameter in mm (D) *
:  :...................Metric System
:......................Nomenclature
```



* Inner dia. for washers and nuts

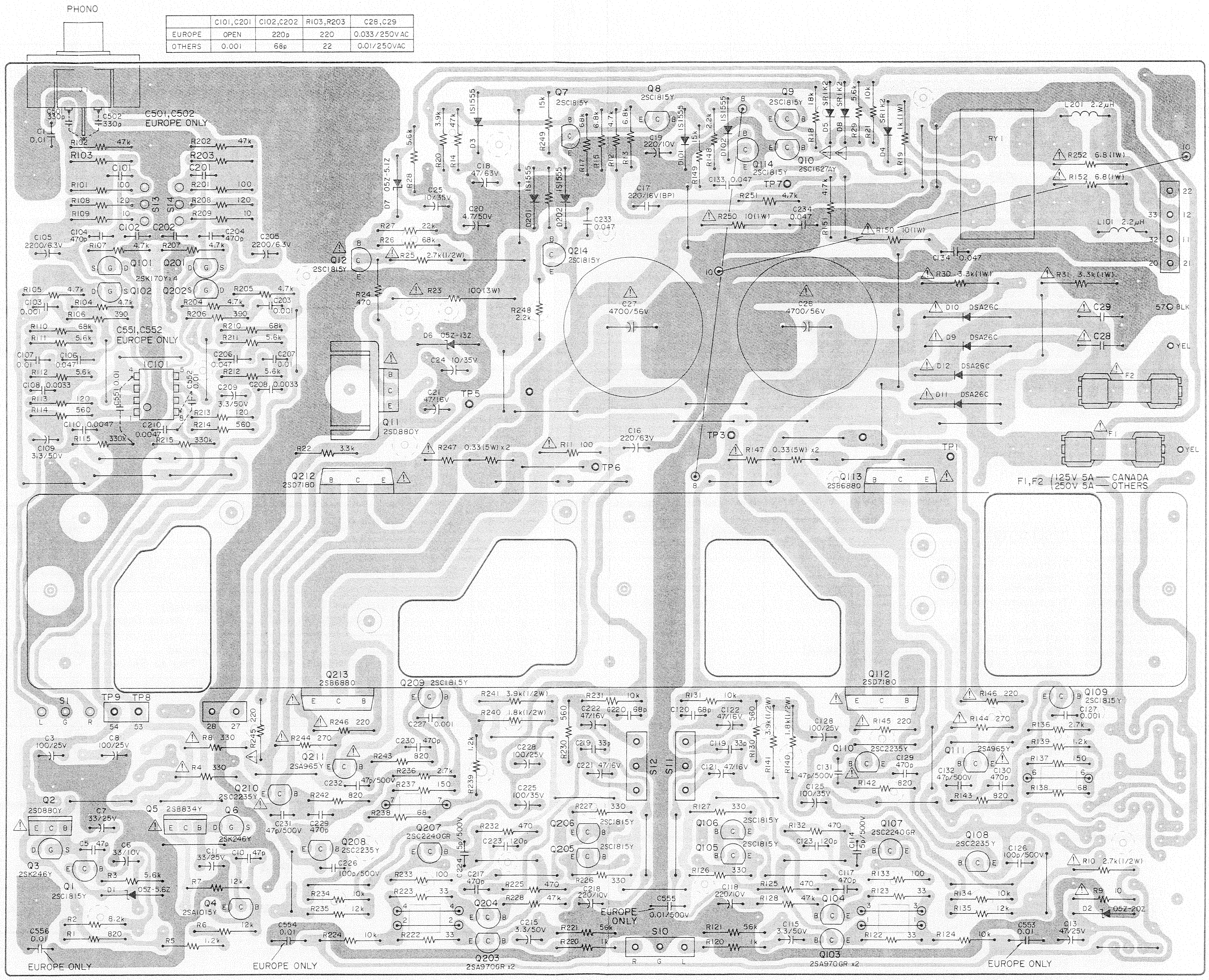
	Code	Name	Type
MACHINE SCREW	**R**	Round Head Screw	
	P	Pan Head Screw	
	T	Stove Head Screw (Truss)	
	B	Binding Head Screw	
	F	Flat Countersunk Head Screw	
	O	Oval Countersunk Head Screw	
WOOD SCREW	**RW**	Round Head Wood Screw	
TAPTITE SCREW	**PTT**	Pan Head Taptite Screw	
	WTT	Washer Head Taptite Screw	
SEMS SCREW	**BSA**	Binding Head SEMS Screw(A Type)	
	BSB	Binding Head SEMS Screw(B Type)	
	BSF	Binding Head SEMS Screw(F Type)	
	PSA	Pan Head SEMS Screw(A Type)	
	PSB	Pan Head SEMS Screw(B Type)	

	Code	Name	Type
TAPPING SCREW	**BTA**	Binding Head Tapping Screw(A Type)	
	BTB	Binding Head Tapping Screw(B Type)	
	RTA	Round Head Tapping Screw(A Type)	
	RTB	Round Head Tapping Screw(B Type)	
SETSCREW	**SF**	Hex Socket Setscrew(Flat Point)	
	SC	Hex Socket Setscrew(Cup Point)	
	SS	Slotted Socket Setscrew(Flat Point)	
WASHER	**E**	E-Ring (Retaining Washer)	
	W	Flat Washer (Plain)	
	SW	Lock Washer (Spring)	
	LWI	Lock Washer (Internal Teeth)	
	LWE	Lock Washer (External Teeth)	
	TW	Trim Washer (Countersunk)	
NUT	**N**	Hex Nut	

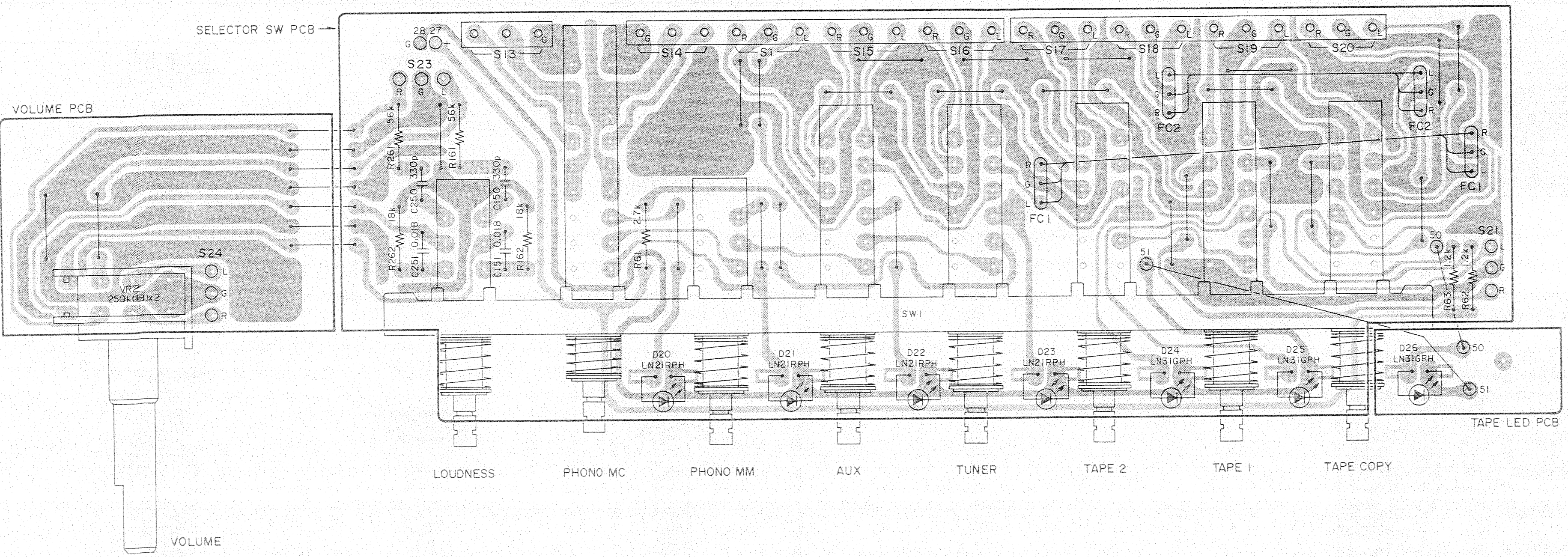
6 PC BOARDS AND PARTS LIST

A-707
MAIN PCB ASSY

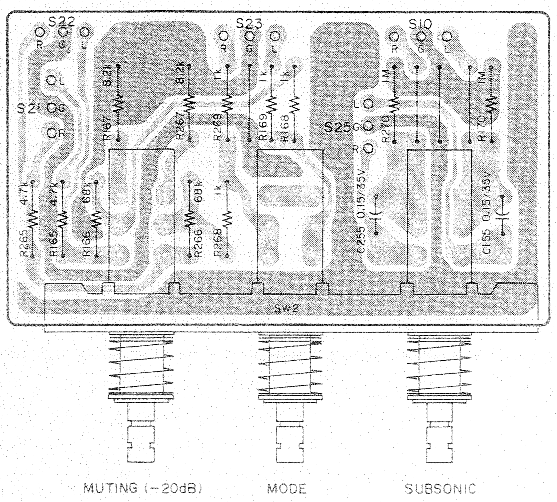
	C101,C201	C102,C202	R103,R203	C28,C29
EUROPE	OPEN	220p	220	0.033/250VAC
OTHERS	0.001	68p	22	0.01/250VAC


PHONO
C501,C502 EUROPE ONLY
C551,C552 EUROPE ONLY
IC101
Q101 Q201 2SK170Y×4
Q102 Q202
Q7 2SC1815Y
Q8 2SC1815Y
Q9 2SC1815Y
Q10 2SC1627AY
Q114 2SC1815Y
Q12 2SC1815Y
Q214 2SC1815Y
Q11 2SD880Y
RY1
L201 2.2μH
L101 2.2μH
R252 6.8(1W)
R152 6.8(1W)
R150 10(1W)
R250 10(1W)
R30 3.3k(1W)
R31 3.3k(1W)
D10 DSA26C
D9 DSA26C
D12 DSA26C
D11 DSA26C
C27 4700/56V
C28 4700/56V
C29
C28
F1
F2
F1,F2 125V 5A — CANADA
250V 5A — OTHERS
TP1
TP3
TP5
TP6
TP7
R247 0.33(5W)×2
R147 0.33(5W)×2
Q212 2SD718O
Q113 2SB688O
Q213 2SB688O
Q112 2SD718O
Q209 2SC1815Y
Q109 2SC1815Y
Q211 2SA965Y
Q111 2SA965Y
Q210 2SC2235Y
Q110 2SC2235Y
Q208 2SC2235Y
Q108 2SC2235Y
Q207 2SC2240GR
Q107 2SC2240GR
Q206 2SC1815Y
Q205 2SC1815Y
Q106 2SC1815Y
Q105 2SC1815Y
Q204
Q104
Q203 2SA970GR×2
Q103 2SA970GR×2
Q2 2SD880Y
Q5 2SB834Y
Q6 2SK246Y
Q3 2SK246Y
Q1 2SC1815Y
Q4 2SA1015Y
S1
S10
S11
S12
S13
S14
TP9
TP8
54 53
28 27
L G R
R G L
EUROPE ONLY
57 BLK
YEL

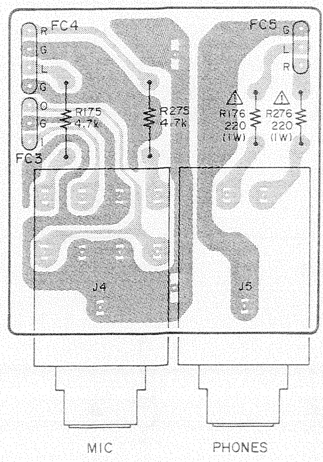
SELECTOR SW PCB ASSY/TAPE LED PCB ASSY/VOLUME PCB ASSY


SELECTOR SW PCB
VOLUME PCB
TAPE LED PCB
S13
S14
S15
S16
S17
S18
S19
S20
S21
S23
S24
SW1
FC1
FC2
VR2 250k(B)x2
D20 LN21RPH
D21 LN21RPH
D22 LN21RPH
D23 LN21RPH
D24 LN31GPH
D25 LN31GPH
D26 LN31GPH
LOUDNESS
PHONO MC
PHONO MM
AUX
TUNER
TAPE 2
TAPE 1
TAPE COPY
VOLUME

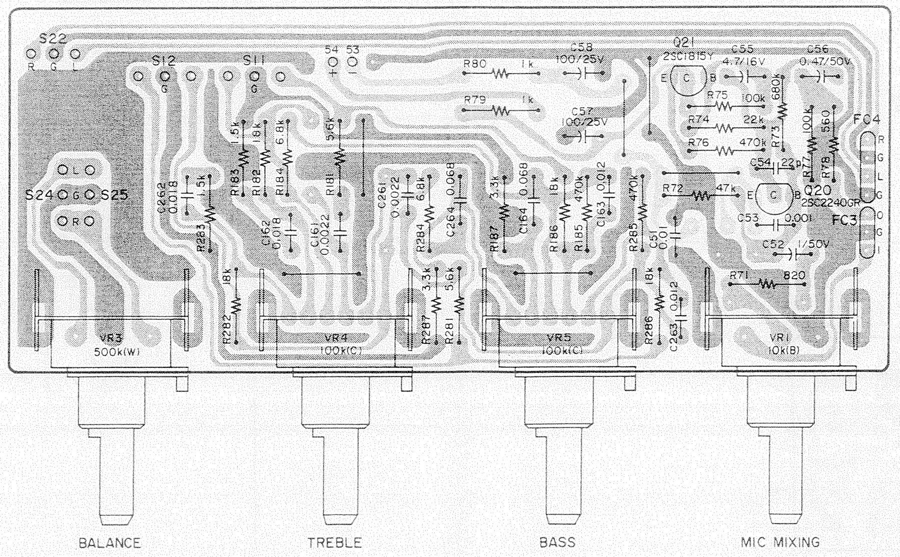
MUTING PCB ASSY


S22
S23
S10
S21
S25
SW2
MUTING (−20dB)
MODE
SUBSONIC

JACK PCB ASSY


FC4
FC5
FC3
R175 4.7k
R275 4.7k
R176 220 (1W)
R276 220 (1W)
J4
J5
MIC
PHONES

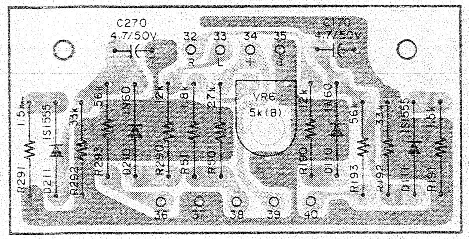
TONE & MIC PCB ASSY


S22
S12
S11
S24
S25
Q21 2SC1815Y
Q20 2SC2240GR
FC4
FC3
VR3 500k(W)
VR4 100k(C)
VR5 100k(C)
VR1 10k(B)
BALANCE
TREBLE
BASS
MIC MIXING

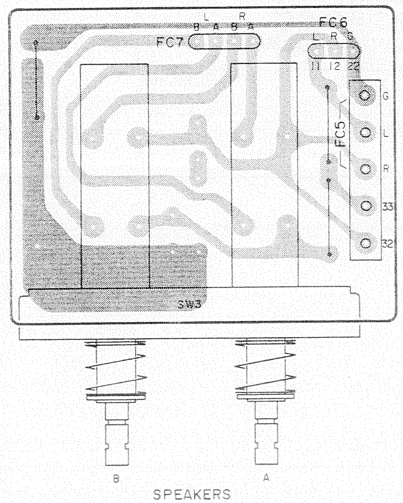
NOTES

1. The colors used on the PCB illustrations have the following significance:
   - ▨ : +B power supply circuit
   - ▨ : −B power supply circuit
   - ▨ : GND
   - ▨ : Other
2. Resistor values are in ohms (k=1,000 ohms, M=1,000,000 ohms).
3. Capacitor values are in microfarads (p=picofarads).
4. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

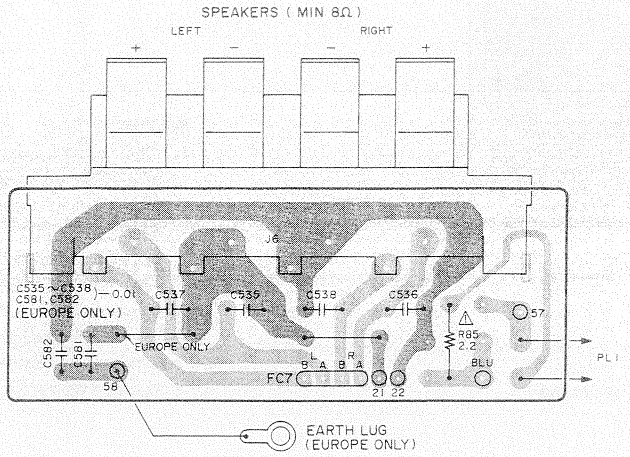
DISPLAY PCB ASSY


C270
4.7/50V
32 33 34 35
C170
4.7/50V
VR6
5k(B)
R291
1.5k
1S1555
D211
33k
R292
R293
56k
1N60
D210
R290
12k
18k
27k
R190
R191
D110
1N60
56k
R193
33k
R192
D111
1S1555
1.5k
36 37 38 39 40

SPEAKER SW PCB ASSY

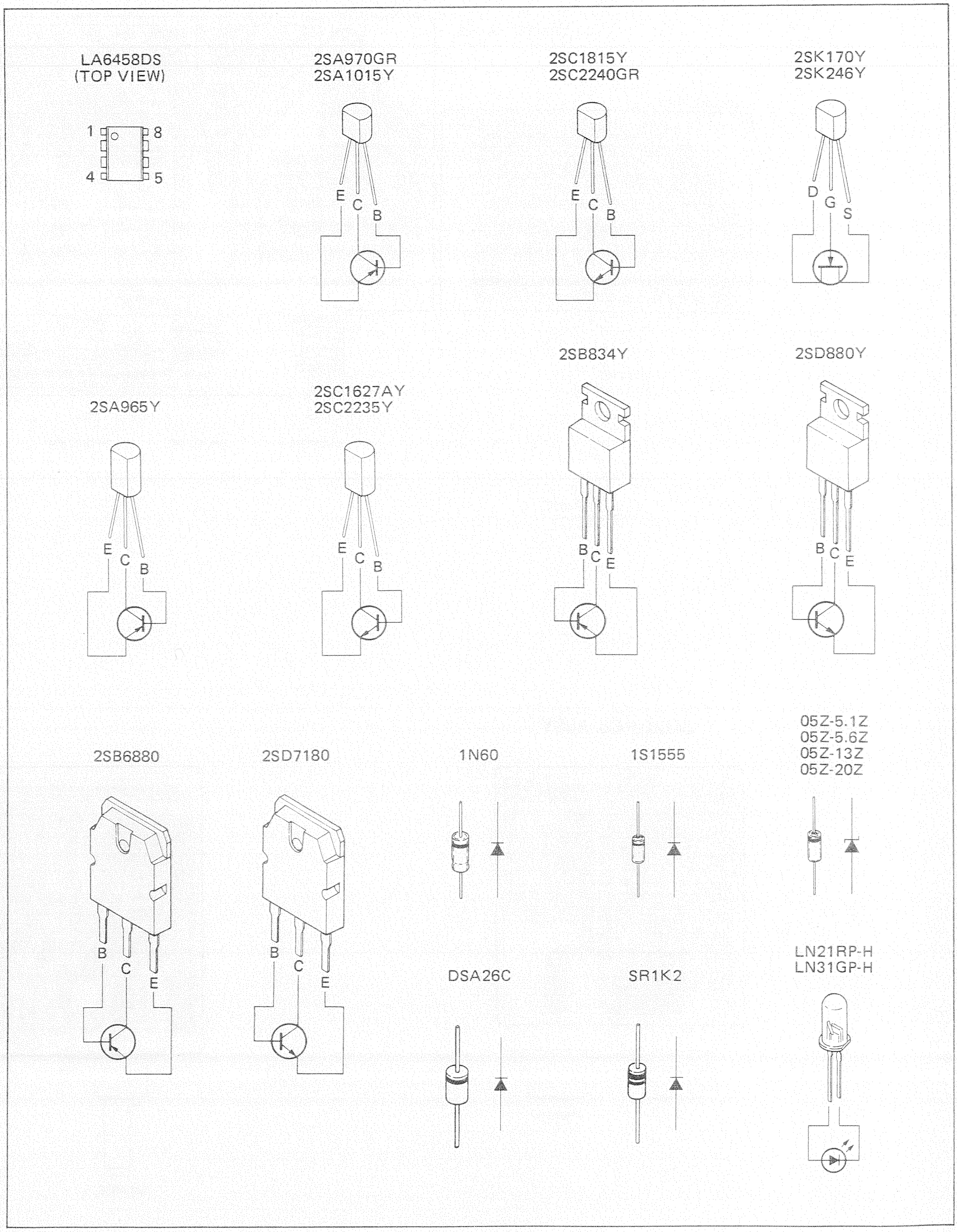

L R
B A B A
FC7
FC6
L R G
11 12 22
FC5
G
L
R
33
32
SW3
B
SPEAKERS
A

SPEAKER TERMINAL PCB ASSY


SPEAKERS (MIN 8Ω)
LEFT
RIGHT
+ − − +
J6
C535~C538
C581, C582 }—0.01
(EUROPE ONLY)
C537
C535
C538
C536
C582
C581
EUROPE ONLY
57
R85
2.2
BLU
PL1
L R
B A B A
FC7
21 22
58
EARTH LUG
(EUROPE ONLY)

A-707

SEMICONDUCTOR ELECTRODES


LA6458DS
(TOP VIEW)
1 8
4 5
2SA970GR
2SA1015Y
E C B
2SC1815Y
2SC2240GR
E C B
2SK170Y
2SK246Y
D G S
2SA965Y
E C B
2SC1627AY
2SC2235Y
E C B
2SB834Y
B C E
2SD880Y
B C E
2SB6880
B C E
2SD7180
B C E
1N60
1S1555
05Z-5.1Z
05Z-5.6Z
05Z-13Z
05Z-20Z
DSA26C
SR1K2
LN21RP-H
LN31GP-H

A-707

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760315500	PCB Assy [C]
	5760315510	PCB Assy [E]
	5760315520	PCB Assy [GE, UK, A]
	5760252700	PCB [C]
	5760252800	PCB [All except C]
	IC	
IC101	5760337400	LA6458 DS
	TRANSISTORS	
Q1	5230770300	2SC1815Y
Q2	⚠5231755100	2SD880Y
Q3	5232005100	FET 2SK246Y
Q4	5230012700	2SA1015Y
Q5	⚠5230505700	2SB834Y
Q6	5232005100	FET 2SK246Y
Q7~Q9	5230770300	2SC1815Y
Q10	5760121800	2SC1627AY
Q11	⚠5231755100	2SD880Y
Q12	5230770300	2SC1815Y
Q101, Q201	5760102300	FET 2SK170Y
Q102, Q202	5760102300	FET 2SK170Y
Q103, Q203	5145149000	2SA970GR
Q104, Q204	5145149000	2SA970GR
Q105, Q205	5230770300	2SC1815Y
Q106, Q206	5230770300	2SC1815Y
Q107, Q207	5145153000	2SC2240GR
Q108, Q208	5145169000	2SC2235Y
Q109, Q209	5230770300	2SC1815Y
Q110, Q210	⚠5145169000	2SC2235Y
Q111, Q211	⚠5145168000	2SA965Y
Q112, Q212	⚠5145171000	2SD718O
Q113, Q213	⚠5145170000	2SB688O
Q114, Q214	5230770300	2SC1815Y
	DIODES	
D1	5224553206	Zener 05Z-5.6Z
D2	5224557106	Zener 05Z-20Z
D3	5042220000	1S1555
D4, D5	⚠5760103300	SR1K2
D6	5224555906	Zener 05Z-13Z
D7	5224552906	Zener 05Z-5.1Z
D8	⚠5760103300	SR1K2
D9~D12	⚠5760340000	DSA26C
D101, D201	5042220000	1S1555
D102, D202	5042220000	1S1555
	RESISTORS **All resistors are rated ±5% tolerance, ¼ watt and are carbon type unless otherwise noted.**	
R1	5181280000	820Ω
R2	5181304000	8.2kΩ
R3	5181300000	5.6kΩ
R4	⚠5184261000	330Ω Nonflammable
R5	5181284000	1.2kΩ
R6, R7	5181308000	12kΩ
R8	⚠5184261000	330Ω Nonflammable
R9	⚠5181234000	10Ω
R10	⚠5182032000	2.7kΩ ½W Nonflammable
R11	⚠5184249000	100Ω Nonflammable
R12	5181298000	4.7kΩ
R13	5181302000	6.8kΩ
R14	5181322000	47kΩ
R15	5181302000	6.8kΩ
R16	5181348000	560kΩ
R17	5181326000	68kΩ
R18	5181312000	18kΩ
R19	5760340500	1kΩ 1W Metal Film
R20	5181296000	3.9kΩ
R21	5181306000	10kΩ
R22	5181294000	3.3kΩ
R23	⚠5760120700	100Ω 3W Cement
R24	5181274000	470Ω
R25	⚠5182032000	2.7kΩ ½W Nonflammable
R26	5181326000	68kΩ
R27	5181314000	22kΩ
R28, R29	5181300000	5.6kΩ
R30, R31	⚠5760141100	3.3kΩ 1W Metal Film
R101, R201	5181258000	100Ω
R102, R202	5181322000	47kΩ
R103, R203	5181242000	22Ω [All except E]
R103, R203	5181266000	220Ω [E]
R104, R204	5181298000	4.7kΩ
R105, R205	5181298000	4.7kΩ
R106, R206	5181272000	390Ω
R107, R207	5181298000	4.7kΩ
R108, R208	5181260000	120Ω
R109, R209	5181234000	10Ω
R110, R210	5181326000	68kΩ
R111, R211	5181300000	5.6kΩ
R112, R212	5181300000	5.6kΩ
R113, R213	5181260000	120Ω
R114, R214	5181276000	560Ω
R115, R215	5181342000	330kΩ
R120, R220	5181282000	1kΩ
R121, R221	5181324000	56kΩ
R122, R222	5181246000	33Ω
R123, R223	5181246000	33Ω
R124, R224	5181306000	10kΩ
R125, R225	5181274000	470Ω
R126, R226	5181270000	330Ω
R127, R227	5181270000	330Ω
R128, R228	5181322000	47kΩ
R130, R230	5181276000	560Ω
R131, R231	5181306000	10kΩ
R132, R232	5181274000	470Ω
R133, R233	5181258000	100Ω
R134, R234	5181306000	10kΩ
R135, R235	5181308000	12kΩ
R136, R236	5181292000	2.7kΩ
R137, R237	5181262000	150Ω
R138, R238	5181254000	68Ω
R139, R239	5181284000	1.2kΩ
R140, R240	5180088000	1.8kΩ ½W
R141, R241	5180096000	3.9kΩ ½W
R142, R242	5181280000	820Ω
R143, R243	5181280000	820Ω
R144, R244	⚠5184259000	270Ω Nonflammable
R145, R245	⚠5184257000	220Ω Nonflammable

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

REF. NO.	PARTS NO.	DESCRIPTION
R146, R246	⚠5184257000	220Ω Nonflammable
R147, R247	⚠5760120600	0.33Ω 5Wx2 Cement
R148, R248	5181290000	2.2kΩ
R149, R249	5181310000	15kΩ
R150, R250	⚠5760140900	10Ω 1W Metal Film
R151, R251	5181298000	4.7kΩ
R152, R252	⚠5760140800	6.8Ω 1W Metal Film
	CAPACITORS	
C1	5172336000	Ceramic 0.01µF 50V
C3	5260162650	Elec. 100µF 25V
C5	5172308000	Ceramic 47pF 50V
C6	5260164152	Elec. 33µF 10V
C7	5260164452	Elec. 33µF 25V
C8	5260162650	Elec. 100µF 25V
C10	5172308000	Ceramic 47pF 50V
C11	5260164452	Elec. 33µF 25V
C13	5260165252	Elec. 47µF 25V
C16	5173312000	Elec. 220µF 63V
C17	5260071400	Elec. 220µF 16V (BP)
C18	5173310000	Elec. 47µF 63V
C19	5260166852	Elec. 220µF 10V
C20	5260162150	Elec. 4.7µF 50V
C21	5260165252	Elec. 47µF 16V
C24	5260162750	Elec. 10µF 35V
C25	5260162750	Elec. 10µF 35V
C26	⚠5760340800	Elec. 4700µF 56V
C27	⚠5760340800	Elec. 4700µF 56V
C28, C29	⚠5760348600	Ceramic 0.01µF 250V AC [All except E]
C28, C29	⚠5760334200	Ceramic 0.033µF 250V AC[E]
C101, C201	5172324000	Ceramic 0.001µF 50V [All except E]
C102, C202	5172310000	Ceramic 68pF 50V [All except E]
C102, C202	5172316000	Ceramic 220pF 50V [E]
C103, C203	5172324000	Ceramic 0.001µF 50V
C104, C204	5172320000	Ceramic 470pF 50V
C105, C205	5173086000	Elec. 2200µF 6.3V
C106, C206	5054738800	Mylar 0.047µF 50V 5%
C107, C207	5054877800	Mylar 0.01µF 50V 5%
C108, C208	5054881800	Mylar 0.0033µF 50V 5%
C109, C209	5260161550	Elec. 3.3µF 50V
C110, C210	5054813000	Mylar 0.0047µF 50V
C115, C215	5260161550	Elec. 3.3µF 50V
C117, C217	5172320000	Ceramic 470pF 50V
C118, C218	5260166852	Elec. 220µF 10V
C119, C219	5172306000	Ceramic 33pF 50V
C120, C220	5172310000	Ceramic 68pF 50V
C121, C221	5260165252	Elec. 47µF 16V
C122, C222	5260165252	Elec. 47µF 16V
C123, C223	5172313000	Ceramic 120pF 50V
C124, C224	5760340700	Ceramic 5pF 120V DC
C125, C225	5173047800	Elec. 100µF 35V
C126, C226	5760340600	Ceramic 100pF 120V DC
C127, C227	5172324000	Ceramic 0.001µF 50V
C128, C228	5260162650	Elec. 100µF 25V
C129, C229	5172320000	Ceramic 470pF 50V
C130, C230	5172320000	Ceramic 470pF 50V

REF. NO.	PARTS NO.	DESCRIPTION
C131, C231	5760338400	Ceramic 47pF 120V DC
C132, C232	5760338400	Ceramic 47pF 120V DC
C133, C233	5054827000	Mylar 0,047µF 50V
C134, C234	5054827000	Mylar 0.047µF 50V
C501, C502	5172318000	Ceramic 330pF 50V [E]
C551~C554	5172336000	Ceramic 0.01µF 50V [E]
C555	5760362800	Ceramic 0.01µF 120V DC [E]
C556	5172336000	Ceramic 0.01µF 50V [E]
	COILS	
L101, L201	5760120900	2.2µH
	FUSES	
F1, F2	⚠5760080700	125V 5A [C]
	⚠5142174000	250V 5A [All except C]
	MISCELLANEOUS	
RY1	5760121000	Relay
J1	5760142100	Pin Jack, 2P
	5760121500	Heatsink, B
	5760102200	Heatsink
	5142087000	Holder, Fuse (4 used)
	5760115500	Pin, Lapping (7 used)
	5760115800	Pin, Lapping; 4P
	5760115600	Pin, Lapping; 2P (2 used)
	5760115700	Pin, Lapping; 3P (3 used)

SELECTOR SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316400	PCB Assy [C]
	5760316410	PCB Assy [All except C]
	5760253200	PCB [C]
	5760254100	PCB [All except C]
	DIODES	
D20~D23	5760334800	LED LN21RP-H (RED)
D24, D25	5760334700	LED LN31GP-H(GRN)
	CARBON RESISTORS **All resistors are rated ±5% tolerance and ¼ watt.**	
R161, R261	5181324000	56kΩ
R162, R262	5181312000	18kΩ
R61	5181292000	2.7kΩ
R62, R63	5181284000	1.2kΩ
	CAPACITORS	
C150, C250	5172318000	Ceramic 330pF 50V
C151, C251	5054855000	Mylar 0.018µF 50V
	MISCELLANEOUS	
SW1	5760340900	Switch, Push
	5760341000	Pin, Lapping; 12P (2 used)
	5760115700	Pin, Lapping; 3P

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

TAPE LED PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316500	PCB Assy [C]
	5760316510	PCB Assy [All except C]
	5760253300	PCB [C]
	5760254200	PCB [All except C]
D26	5760334700	LED LN31GP-H (GRN)

VOLUME PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316600	PCB Assy [C]
	5760316610	PCB Assy [All except C]
	5760253400	PCB [C]
	5760254300	PCB [All except C]
VR2	5760339400	Var. Res. 250kΩ(B)x2

MUTING PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760317000	PCB Assy [C]
	5760317010	PCB Assy [All except C]
	5760253800	PCB [C]
	5760254700	PCB [All except C]
	CARBON RESISTORS All resistors are rated ±5% tolerance and ¼ watt.	
R165, R265	5181298000	4.7kΩ
R166, R266	5181326000	68kΩ
R167, R267	5181304000	8.2kΩ
R168, R268	5181282000	1kΩ
R169, R269	5181282000	1kΩ
R170, R270	5181354000	1MΩ
	CAPACITORS	
C155, C255	5760341400	Tant. 0.15μF 35V
	SWITCH	
SW2	5760341500	Push

JACK PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316800	PCB Assy [C]
	5760316810	PCB Assy [All except C]
	5760253600	PCB [C]
	5760254500	PCB [All except C]
R175, R275	5181298000	Res., Carbon 4.7kΩ ¼W 5%
R176, R276	⚠5760339500	Res., Metal Film 220Ω 1W 5%
J4	5760341300	Jack, MIC
J5	5760141300	Jack, PHONES

TONE & MIC PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316700	PCB Assy [C]
	5760316710	PCB Assy [All except C]
	5760253500	PCB [C]
	5760254400	PCB [All except C]
	TRANSISTORS	
Q20	5145153000	2SC2240GR
Q21	5230770300	2SC1815Y
	CARBON RESISTORS All resistors are rated ±5% tolerance and ¼ watt unless otherwise noted.	
R71	5181280000	820Ω
R72	5181322000	47kΩ
R73	5181350000	680kΩ
R74	5181314000	22kΩ
R75	5181330000	100kΩ
R76	5181274000	470Ω
R77	5181330000	100kΩ
R78	5181276000	560Ω
R79, R80	5184273000	1kΩ Nonflammable
R181, R281	5181300000	5.6kΩ
R182, R282	5181312000	18kΩ
R183, R283	5181286000	1.5kΩ
R184, R284	5181302000	6.8kΩ
R185, R285	5181346000	470kΩ
R186, R286	5181312000	18kΩ
R187, R287	5181294000	3.3kΩ
	CAPACITORS	
C51	5172336000	Ceramic 0.01μF 50V
C52	5260160750	Elec. 1μF 50V
C53	5172324000	Ceramic 0.001μF 50V
C54	5172304000	Ceramic 22pF 50V
C55	5260165252	Elec. 47μF 16V
C56	5260160550	Elec. 0.47μF 50V
C57, C58	5260166152	Elec. 100μF 25V
C161, C261	5054845000	Mylar 0.0022μF 50V
C162, C262	5054855000	Mylar 0.018μF 50V
C163, C263	5054862000	Mylar 0.012μF 50V
C164, C264	5054854000	Mylar 0.068μF 50V
	VARIABLE RESISTORS	
VR1	5760341200	10kΩ (B)
VR3	5760339100	500kΩ (W)
VR4, VR5	5760339200	100kΩ (C)x2

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

DISPLAY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760318000	PCB Assy [C]
	5760318010	PCB Assy [All except C]
	5760252900	PCB [C]
	5760253000	PCB [All except C]
	DIODES	
D110, D210	5042213000	1N60
D111, D211	5042220000	1S1555
	CARBON RESISTORS **All resistors are rated ±5% tolerance and ¼ watt.**	
R190, R290	5181308000	12kΩ
R191, R291	5181286000	1.5kΩ
R192, R292	5181318000	33kΩ
R193, R293	5181324000	56kΩ
R50	5181316000	27kΩ
R51	5181288000	1.8kΩ
	CAPACITORS	
C170, C270	5260162150	Elec. 4.7μF 50V
	VARIABLE RESISTOR	
VR6	5280003300	Semi-fixed 5kΩ (B)

POWER SW PCB ASSY (PC Board Omitted)

REF. NO.	PARTS NO.	DESCRIPTION
	5760316200	PCB Assy [C]
	5760316210	PCB Assy [GE]
	5760316220	PCB Assy [E]
	5760316230	PCB Assy [UK, A]
	5760252500	PCB [C]
	5760252600	PCB [All except C]
SW4	⚠5300030800	Switch
Z2	⚠5760099900	Spark Killer 0.01μF/250V AC [C]
Z2	⚠5760335600	Spark Killer 0.01μF/250V AC[GE]
Z2	⚠5267703100	Spark Killer 0.01μF/250V AC [UK, A]
Z1, Z2	⚠5267703100	Spark Killer 0.01μF/250V AC [E]
	⚠5760115500	Pin, Lapping

SPEAKER SW PCB ASSY

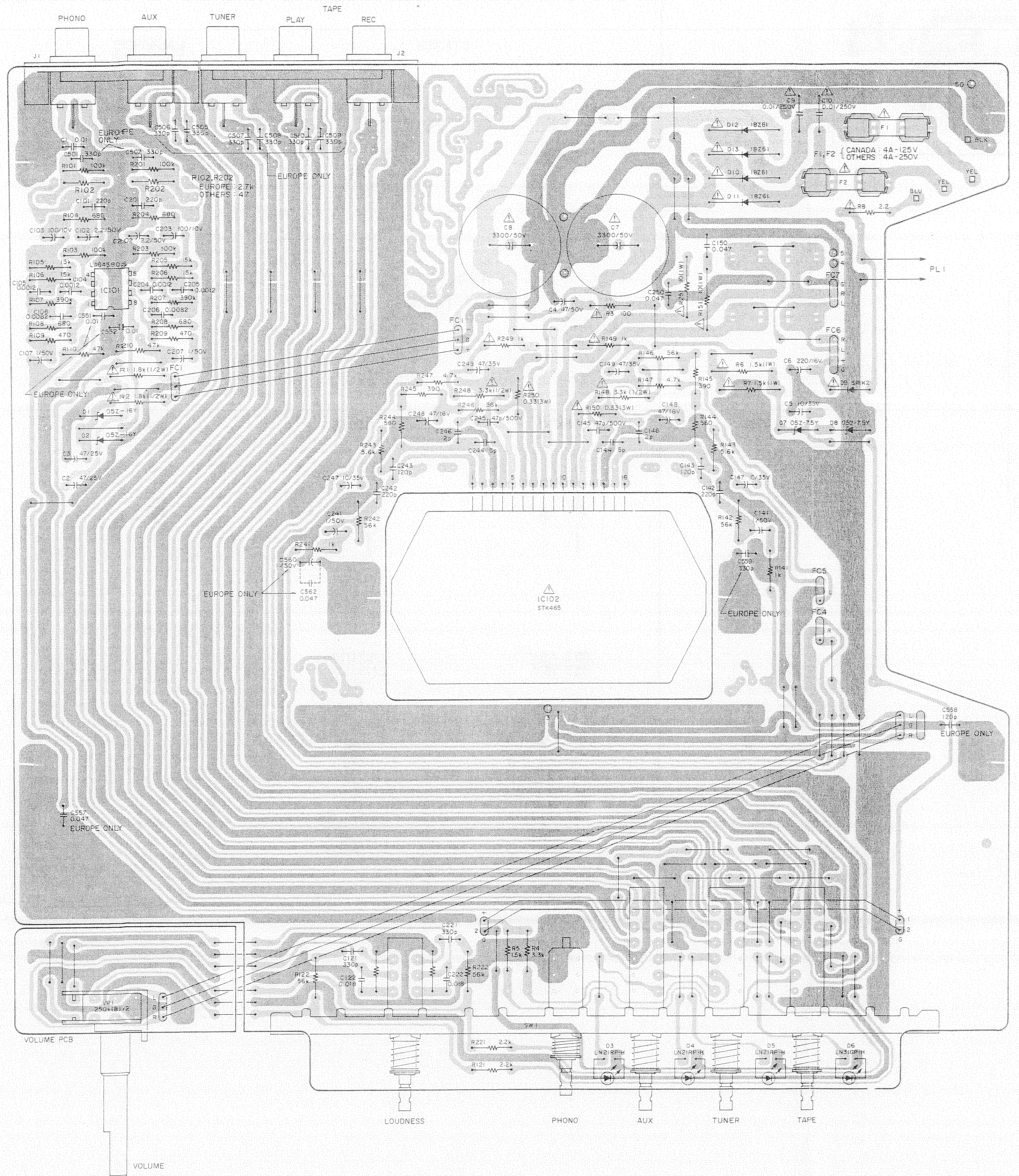
REF. NO.	PARTS NO.	DESCRIPTION
	5760317100	PCB Assy [C]
	5760317110	PCB Assy [All except C]
	5760253900	PCB [C]
	5760254800	PCB [All except C]
SW3	5760341600	Switch, Push
	5760116100	Pin, Lapping; 5P

SPEAKER TERMINAL PCB ASSY

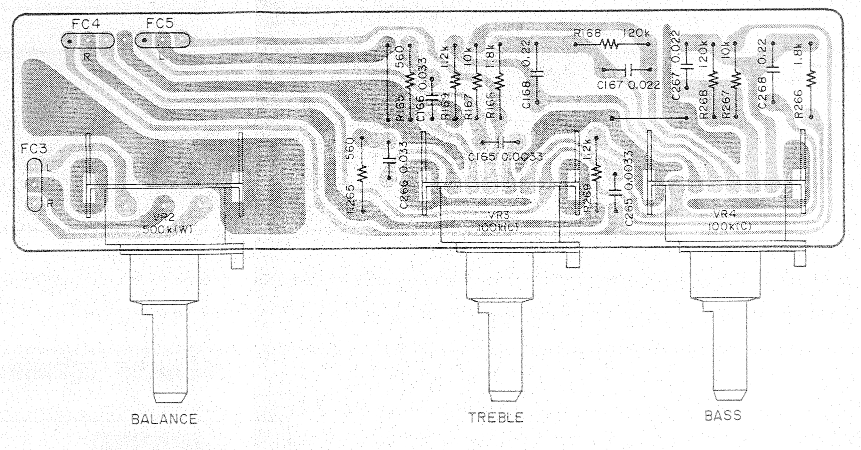
REF. NO.	PARTS NO.	DESCRIPTION
	5760316900	PCB Assy [C]
	5760316910	PCB Assy [E]
	5760316920	PCB Assy [GE, UK, A]
	5760253700	PCB [C]
	5760254600	PCB [All except C]
R85	⚠5185211000	Res. Fusible 2.2Ω ¼W 5%
C535~C538	5172336000	Cap. Ceramic 0.01μF 50V [E]
C581, C582	5172336000	Cap. Ceramic 0.01μF 50V [E]
J6	5760102700	Terminal, Push; 8P
PL1	5760338700	Lamp, 9V 150mA
	5786700400	Lug, Earth [E]

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

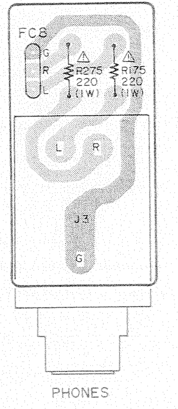
A-505
MAIN PCB ASSY/VOLUME PCB ASSY


PHONO
AUX
TUNER
TAPE
PLAY
REC
J1
J2
EUROPE ONLY
R102, R202 EUROPE: 2.7k OTHERS: 47
IC101
C8 3300/50V
C7 3300/50V
F1, F2 CANADA: 4A-125V OTHERS: 4A-250V
BLK
BLU
YEL
PL1
FC1
FC4
FC5
FC6
IC102 STK465
VR1 250k(B)×2
VOLUME PCB
SW1
D3 LN21RPH
D4 LN21RPH
D5 LN21RPH
D6 LN31GPH
LOUDNESS
PHONO
AUX
TUNER
TAPE
VOLUME

TONE PCB ASSY


FC4
FC5
FC3
VR2 500k(W)
VR3 100k(C)
VR4 100k(C)
BALANCE
TREBLE
BASS

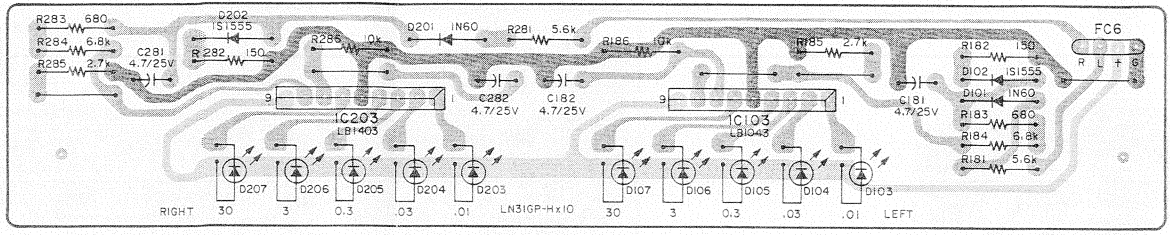
HEADPHONE PCB ASSY


FC6
R275 220 (1W)
R175 220 (1W)
J3
PHONES

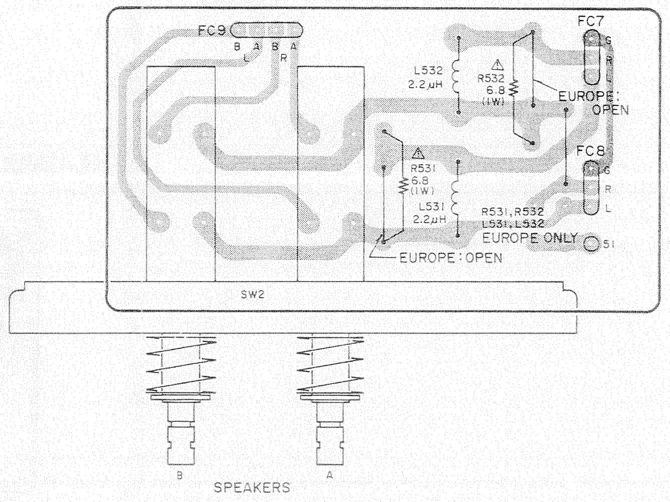
NOTES

1. The colors used on the PCB illustrations have the following significance:
   - ▨ : +B power supply circuit
   - ▨ : −B power supply circuit
   - ▨ : GND
   - ▨ : Other
2. Resistor values are in ohms (k=1,000 ohms).
3. Capacitor values are in microfarads (p=picofarads):
4. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

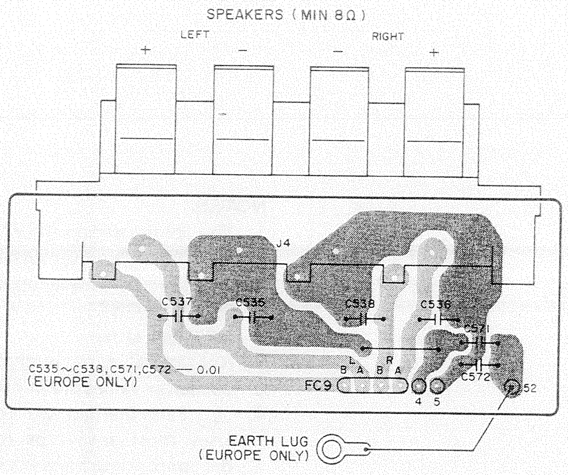
DISPLAY PCB ASSY


R283 680
R284 6.8k
R285 2.7k
C281 4.7/25V
D202 1S1555
R282 150
R286 10k
D201 1N60
R281 5.6k
R186 10k
R185 2.7k
C282 4.7/25V
C182 4.7/25V
9
1
IC203 LB1403
IC103 LB1043
C181 4.7/25V
R182 150
D102 1S1555
D101 1N60
R183 680
R184 6.8k
R181 5.6k
FC6
R L + G
D207 D206 D205 D204 D203
D107 D106 D105 D104 D103
RIGHT 30 3 0.3 .03 .01
LN31GP-H×10
30 3 0.3 .03 .01 LEFT

SPEAKER TERMINAL ASSY

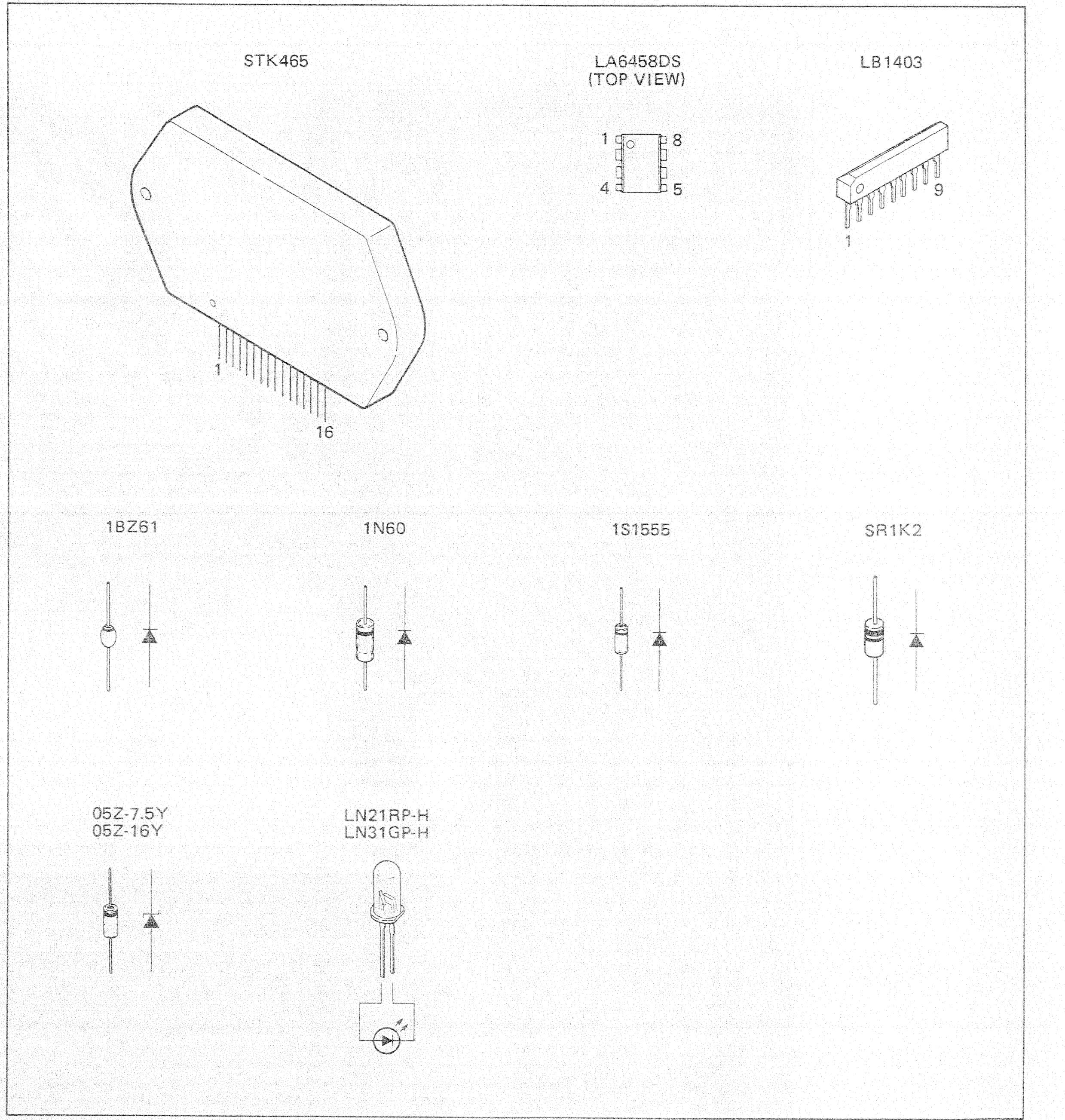

FC9
B A B A
L R
L532 2.2μH
R532 6.8 (1W)
EUROPE: OPEN
FC7
G R L
FC8
G R L
R531 6.8 (1W)
L531 2.2μH
R531, R532
L531, L532
EUROPE ONLY
51
EUROPE: OPEN
SW2
B
SPEAKERS
A

SPEAKER SW PCB ASSY


SPEAKERS (MIN 8Ω)
LEFT
RIGHT
+ − − +
J4
C537
C535
C538
C536
C571
C572
L R
B A B A
FC9
4 5
52
C535~C538, C571, C572 — 0.01
(EUROPE ONLY)
EARTH LUG
(EUROPE ONLY)

A-505

SEMICONDUCTOR ELECTRODES


STK465
1
16
LA6458DS
(TOP VIEW)
1 8
4 5
LB1403
1
9
1BZ61
1N60
1S1555
SR1K2
05Z-7.5Y
05Z-16Y
LN21RP-H
LN31GP-H

A-505

MAIN PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION		
	5760315500	PCB Assy [C]		
	5760315510	PCB Assy [E]		
	5760315520	PCB Assy [GE, UK, A]		
	5760251000	PCB [C]		
	5760251800	PCB [All except C]		
	IC's			
IC101	5760337400	LA6458DS		
IC102	⚠5760337500	STK465		
	DIODES			
D1, D2	5224556406	Zener	05Z-16Y	
D3~D5	5760334800	LED	LN21RP-H (RED)	
D6	5760334700	LED	LN31GP-H (GRN)	
D7, D8	5224554006	Zener	05Z-7.5Y	
D9	⚠5760103300	SR1K2		
D10~D13	⚠5760337600	1BZ61		
	RESISTORS **All resistors are rated ±5% tolerance, ¼ watt and are carbon type unless otherwise noted.**			
R1, R2	⚠5182028000	1.8kΩ	½W	Nonflammable
R3	⚠5184249000	100Ω		Nonflammable
R4	5181294000	3.3kΩ		
R5	5181286000	1.5kΩ		
R6, R7	⚠5760141500	1.5kΩ	1W	Metal Film
R8	⚠5185211000	2.2Ω		Fusible
R101, R201	5181330000	100kΩ		
R102, R202	5181292000	2.7kΩ	[E]	
	5181250000	47Ω	[All except E]	
R103, R203	5181330000	100kΩ		
R104, R204	5181278000	680Ω		
R105, R205	5181310000	15kΩ		
R106, R206	5181310000	15kΩ		
R107, R207	5181344000	390kΩ		
R108, R208	5181278000	680Ω		
R109, R209	5181274000	470Ω		
R110, R210	5181322000	47kΩ		
R121, R221	5181290000	2.2kΩ		
R122, R222	5181324000	56kΩ		
R123, R223	5181312000	18kΩ		
R141, R241	5181282000	1kΩ		
R142, R242	5181324000	56kΩ		
R143, R243	5181300000	5.6kΩ		
R144, R244	5181276000	560Ω		
R145, R245	5181272000	390Ω		
R146, R246	5181324000	56kΩ		
R147, R247	5181298000	4.7kΩ		
R148, R248	⚠5180094000	3.3kΩ	½W	
R149, R249	⚠5184273000	1kΩ		Nonflammable
R150, R250	⚠5760338500	0.33Ω	3W	Cement
R151, R251	⚠5760140900	10Ω	1W	Metal Film
	CAPACITORS			
C1	5172336000	Ceramic	0.01μF	50V
C2, C3	5260165252	Elec.	47μF	25V
C4	5260165452	Elec.	47μF	50V
C5	5260162750	Elec.	10μF	35V
C6	5173054800	Elec.	220μF	16V
C7, C8	⚠5760337900	Elec.	3300μF	50V
C9, C10	⚠5760348600	Ceramic	0.01μF	250V AC

REF. NO.	PARTS NO.	DESCRIPTION		
C101, C201	5172316000	Ceramic	220pF	50V
C102, C202	5260161150	Elec.	2.2μF	50V
C103, C203	5260165952	Elec.	100μF	10V
C104, C204	5054886800	Mylar	0.0012μF	50V
C105, C205	5054886800	Mylar	0.0012μF	50V
C106, C206	5054894800	Mylar	0.0082μF	50V
C107, C207	5260160750	Elec.	1μF	50V
C121, C221	5172318000	Ceramic	330pF	50V
C122, C222	5054855000	Mylar	0.018μF	50V
C141, C241	5260160750	Elec.	1μF	50V
C142, C242	5172316000	Ceramic	220pF	50V
C143, C243	5172313000	Ceramic	120pF	50V
C144, C244	5760338000	Ceramic	5pF	50V
C145, C245	5760338400	Ceramic	47pF	120V DC
C146, C246	5760338100	Ceramic	2pF	50V
C147, C247	5260162750	Elec.	10μF	35V
C148, C248	5260165252	Elec.	47μF	16V
C149, C249	5260165352	Elec.	47μF	35V
C150, C250	5054827000	Mylar	0.047μF	50V
C501, C502	5172318000	Ceramic	330pF	50V [E]
C505~C510	5172318000	Ceramic	330pF	50V [E]
C551, C552	5172336000	Ceramic	0.01μF	50V [E]
C557	5172344000	Ceramic	0.047μF	50V [E]
C558	5172313000	Ceramic	120pF	50V [E]
C559	5172318000	Ceramic	330pF	50V [E]
C560	5260160750	Elec.	1μF	50V [E]
C562	5172344000	Ceramic	0.047μF	50V [E]
	MISCELLANEOUS			
PL1	5760338700	Lamp 9V 150mA		
SW1	5760338800	Switch, Push		
F1, F2	⚠5760080700	Fuse 125V 4A [C]		
	⚠5142174000	Fuse 250V 4A [All except C]		
	5142087000	Holder, Fuse (4 used)		
J1	5760339000	Pin Jack, 4P		
J2	5760338900	Pin Jack, 6P		
	5760115500	Pin Lapping (4 used)		

VOLUME PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316600	PCB Assy [C]
	5760316610	PCB Assy [All except C]
	5760251100	PCB [C]
	5760251900	PCB [All except C]
VR1	5760339400	Var. Res. 250kΩ(B) x 2

[C]: CANADA   [GE]: GENERAL EXPORT   [E]: EUROPE   [UK]: U.K.   [A]: AUSTRALIA

TONE PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760315700	PCB Assy [C]
	5760315710	PCB Assy [All except C]
	5760251200	PCB [C]
	5760252000	PCB [All except C]
	CARBON RESISTORS **All resistors are rated ±5% tolerance and ¼ watt.**	
R165, R265	5181276000	560Ω
R166, R266	5181288000	1.8kΩ
R167, R267	5181306000	10kΩ
R168, R268	5181332000	120kΩ
R169, R269	5181284000	1.2kΩ
	CAPACITORS	
C165, C265	5054830000	Mylar 0.0033μF 50V
C166, C266	5054824000	Mylar 0.033μF 50V
C167, C267	5054829000	Mylar 0.022μF 50V
C168, C268	5054866000	Mylar 0.22μF 50V
	VARIABLE RESISTORS	
VR2	5760339100	500kΩ (W)
VR3, VR4	5760339200	100kΩ (C) x 2

HEADPHONE PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760315900	PCB Assy [C]
	5760315910	PCB Assy [All except C]
	5760251400	PCB [C]
	5760252200	PCB [All except C]
R175, R275	⚠5760339500	Res. Metal Film 220Ω 1W 5%
J3	5760141300	Jack, PHONES

DISPLAY PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760315800	PCB Assy [C]
	5760315810	PCB Assy [All except C]
	5760251300	PCB [C]
	5760252100	PCB [All except C]
	IC's	
IC103, IC203	5760336500	LB1403
	DIODES	
D101, D201	5042213000	1N60
D102, D202	5042220000	1S1555
D103, D203	5760334700	LED LN31GP-H (GRN)
D104, D204	5760334700	LED LN31GP-H (GRN)
D105, D205	5760334700	LED LN31GP-H (GRN)
D106, D206	5760334700	LED LN31GP-H (GRN)
D107, D207	5760334700	LED LN31GP-H (GRN)

REF. NO.	PARTS NO.	DESCRIPTION
	CARBON RESISTORS **All resistors are rated ±5% tolerance and ¼ watt.**	
R181, R281	5181300000	5.6kΩ
R182, R282	5181262000	150Ω
R183, R283	5181278000	680Ω
R184, R284	5181302000	6.8kΩ
R185, R285	5181292000	2.7kΩ
R186, R286	5181306000	10kΩ
	CAPACITORS	
C181, C281	5260165200	Elec. 4.7μF 25V
C182, C282	5260165200	Elec. 4.7μF 25V

SPEAKER SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	5760316000	PCB Assy [C]
	5760316010	PCB Assy [GE, UK, A]
	5760316020	PCB Assy [E]
	5760251500	PCB [C]
	5760252300	PCB [All except C]
R531, R532	⚠5760140800	Res. Metal Film 6.8Ω 1W 5% [E]
L531, L532	5760120900	Coil 2.2μH [E]
SW2	5760339300	Switch, Push

SPEAKER TERMINAL ASSY

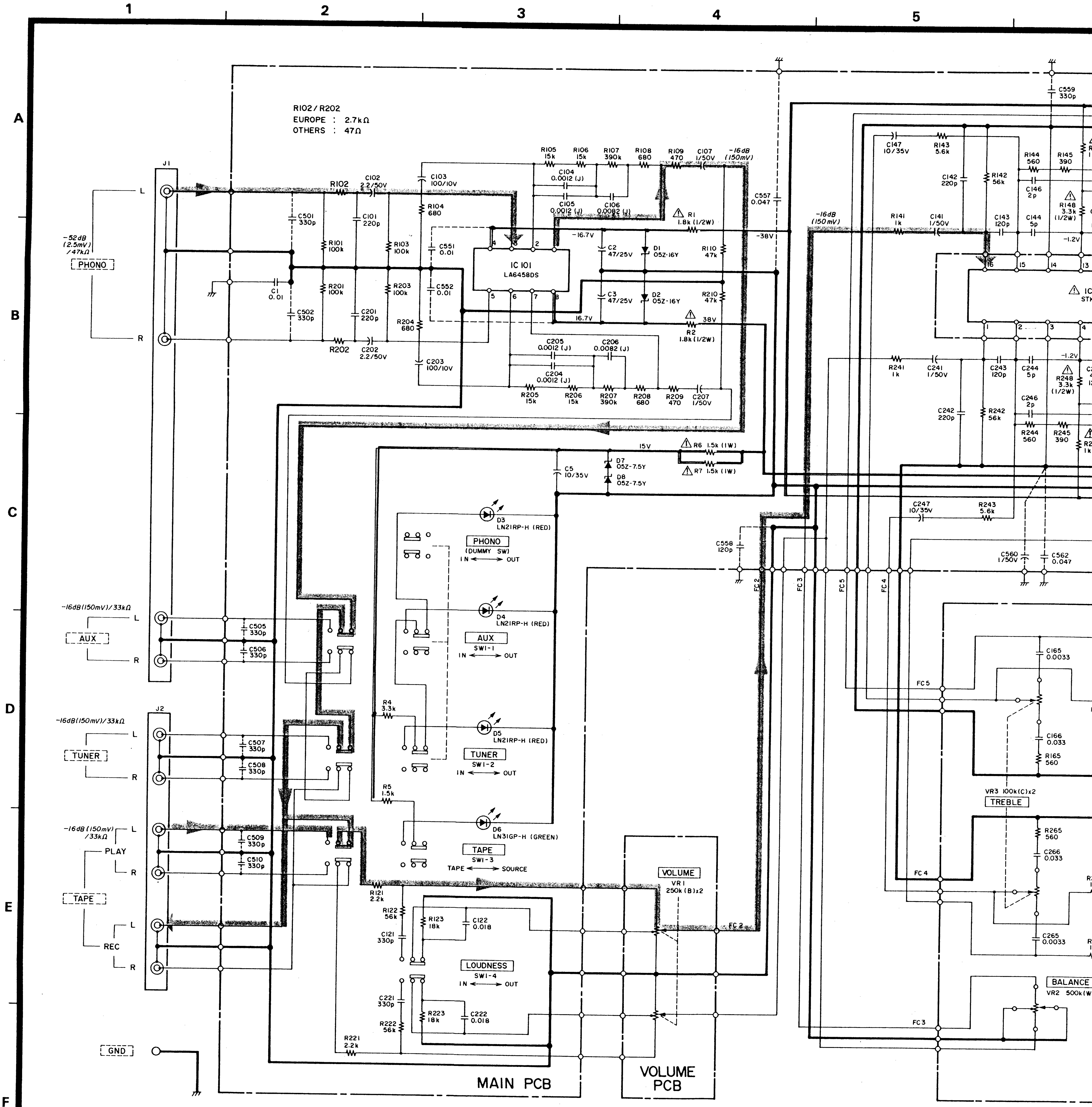
REF. NO.	PARTS NO.	DESCRIPTION
	5760316100	PCB Assy [C]
	5760316110	PCB Assy [GE, UK, A]
	5760316120	PCB Assy [E]
	5760251600	PCB [C]
	5760252400	PCB [All except C]
C535~C538	5172336000	Cap. Ceramic 0.01μF 50V [E]
C571, C572	5172336000	Cap. Ceramic 0.01μF 50V [E]
J4	5760102700	Terminal, Push; 8P
	5786700400	Lug, Earth [E]

POWER SW PCB ASSY (PCB Board Omitted)

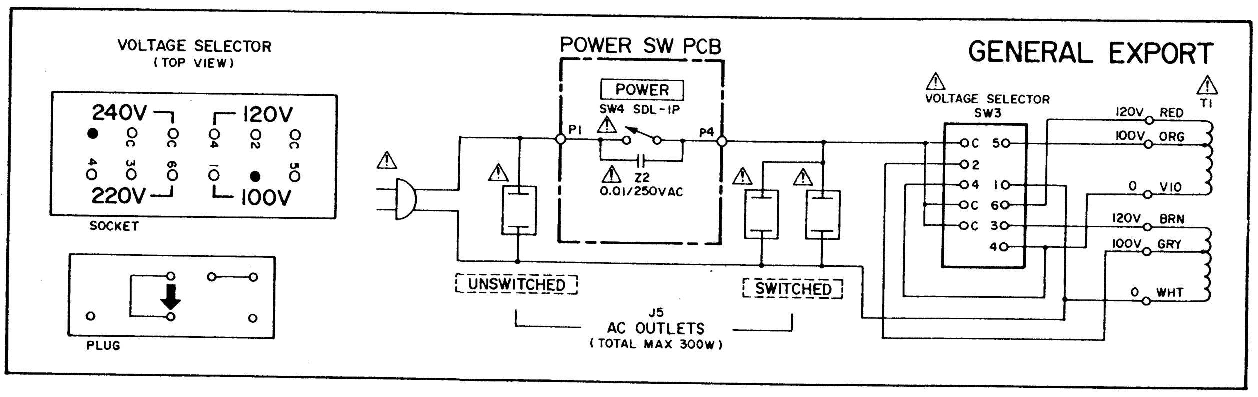
REF. NO.	PARTS NO.	DESCRIPTION
	5760316200	PCB Assy [C]
	5760316210	PCB Assy [GE]
	5760316220	PCB Assy [E]
	5760316230	PCB Assy [UK, A]
	5760252500	PCB [C]
	5760252600	PCB [All except C]
SW4	⚠5300030800	Switch
Z2	⚠5760099900	Spark Killer 0.01μF/250VAC [C]
Z2	⚠5760335600	Spark Killer 0.01μF/250VAC [GE]
Z2	⚠5267703100	Spark Killer 0.01μF/250VAC [UK, A]
Z1, Z2	⚠5267703100	Spark Killer 0.01μF/250VAC [E]
	5760115500	Pin, Lapping

[C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K. [A]: AUSTRALIA

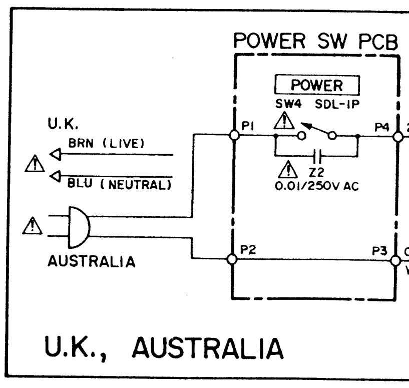
TEAC SCHEMATIC DIAGRAM A-505



1
2
3
4
5
A
B
C
D
E
F
G
H
R102/R202
EUROPE : 2.7kΩ
OTHERS : 47Ω
J1
PHONO
-52dB (2.5mV) /47kΩ
IC 101
LA6458DS
-16dB (150mV)
-16.7V
-38V
16.7V
38V
15V
PHONO (DUMMY SW)
AUX SW1-1
TUNER SW1-2
TAPE SW1-3
TAPE ←→ SOURCE
LOUDNESS SW1-4
IN ←→ OUT
D3 LN21RP-H (RED)
D4 LN21RP-H (RED)
D5 LN21RP-H (RED)
D6 LN31GP-H (GREEN)
-16dB(150mV)/33kΩ
AUX
J2
TUNER
PLAY
REC
TAPE
GND
VOLUME
VR1 250k(B)x2
MAIN PCB
VOLUME PCB
VR3 100k(C)x2
TREBLE
BALANCE
VR2 500k(W)
FC2
FC3
FC4
FC5



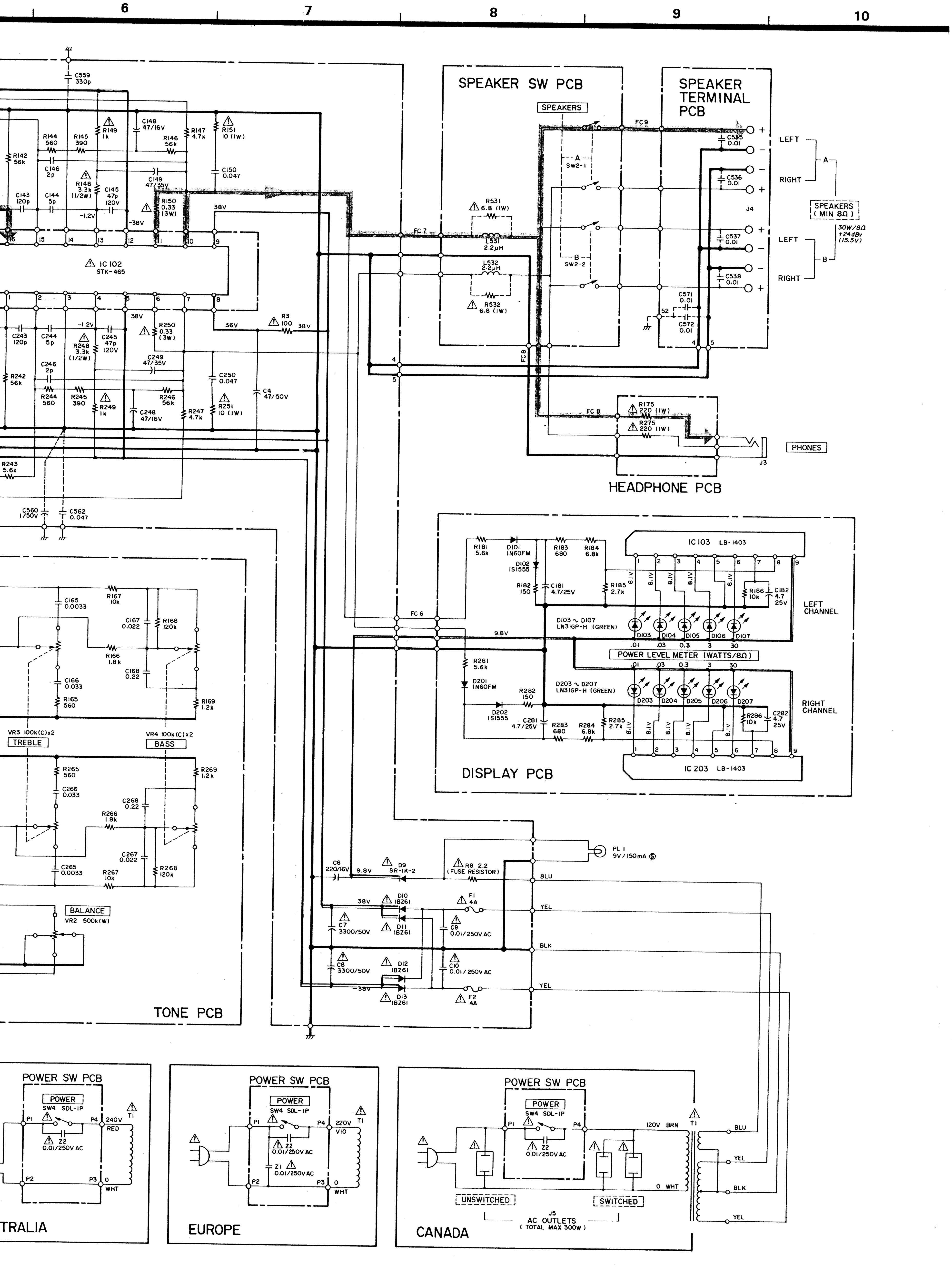
VOLTAGE SELECTOR (TOP VIEW)
240V
120V
220V
100V
SOCKET
PLUG
POWER SW PCB
POWER
SW4 SDL-1P
Z2 0.01/250VAC
UNSWITCHED
SWITCHED
J5 AC OUTLETS (TOTAL MAX 300W)
GENERAL EXPORT
VOLTAGE SELECTOR SW3
T1
120V RED
100V ORG
0 VIO
120V BRN
100V GRY
0 WHT



POWER SW PCB
POWER
SW4 SDL-1P
Z2 0.01/250V AC
U.K.
BRN (LIVE)
BLU (NEUTRAL)
AUSTRALIA
U.K., AUSTRALIA

NOTES

1. All resistors are 1/4W, ±5%, unless otherwise noted.
   Resistor values are in ohms (k=1,000 ohms).
2. All capacitor values are in microfarads (p=pico-farads).
3. 0 dB=1 V
4. The DC voltages given in each portion are reference values measured under no-signal conditions.
5. ⚠ P
   must a
   approp
6.
7.
8.
9.
10.


6
7
8
9
10
SPEAKER SW PCB
SPEAKERS
SW2-1
SW2-2
R531 6.8 (1W)
L531 2.2µH
L532 2.2µH
R532 6.8 (1W)
FC 7
FC 8
FC 9
SPEAKER TERMINAL PCB
C535 0.01
C536 0.01
C537 0.01
C538 0.01
C571 0.01
C572 0.01
J4
LEFT
RIGHT
A
B
SPEAKERS (MIN 8Ω)
30W/8Ω +24dBv (15.5V)
HEADPHONE PCB
R175 220 (1W)
R275 220 (1W)
PHONES
J3
IC 102 STK-465
C559 330p
R149 1k
C148 47/16V
R147 4.7k
R151 10 (1W)
R144 560
R145 390
R146 56k
R142 56k
C146 2p
C150 0.047
R148 3.3k (1/2W)
C145 47p 120V
C149 47/35V
C143 120p
C144 5p
R150 0.33 (3W)
38V
-1.2V
-38V
C243 120p
C244 5p
R248 3.3k (1/2W)
C245 47p 120V
R250 0.33 (3W)
R3 100
36V
C249 47/35V
C246 2p
R242 56k
C250 0.047
C4 47/50V
R244 560
R245 390
R249 1k
R246 56k
C248 47/16V
R247 4.7k
R251 10 (1W)
R243 5.6k
C560 1/50V
C562 0.047
C165 0.0033
R167 10k
C167 0.022
R168 120k
R166 1.8k
C168 0.22
C166 0.033
R165 560
R169 1.2k
VR3 100k(C)x2
TREBLE
VR4 100k(C)x2
BASS
R265 560
R269 1.2k
C266 0.033
C268 0.22
R266 1.8k
C267 0.022
C265 0.0033
R267 10k
R268 120k
BALANCE
VR2 500k(W)
TONE PCB
DISPLAY PCB
IC 103 LB-1403
IC 203 LB-1403
R181 5.6k
D101 1N60FM
D102 1S1555
R183 680
R184 6.8k
R182 150
C181 4.7/25V
R185 2.7k
R186 10k
C182 4.7 25V
8.1V
D103 ~ D107 LN31GP-H (GREEN)
LEFT CHANNEL
RIGHT CHANNEL
POWER LEVEL METER (WATTS/8Ω)
.01 .03 0.3 3 30
FC 6
9.8V
R281 5.6k
D201 1N60FM
R282 150
D202 1S1555
D203 ~ D207 LN31GP-H (GREEN)
C281 4.7/25V
R283 680
R284 6.8k
R285 2.7k
R286 10k
C282 4.7 25V
PL 1 9V/150mA
C6 220/16V
D9 SR-1K-2
R8 2.2 (FUSE RESISTOR)
BLU
YEL
BLK
D10 1BZ61
D11 1BZ61
D12 1BZ61
D13 1BZ61
F1 4A
F2 4A
C7 3300/50V
C8 3300/50V
C9 0.01/250V AC
C10 0.01/250V AC
POWER SW PCB
POWER
SW4 SDL-1P
Z1 0.01/250V AC
Z2 0.01/250V AC
240V RED
220V VIO
120V BRN
0 WHT
T1
TRALIA
EUROPE
CANADA
UNSWITCHED
SWITCHED
J5 AC OUTLETS (TOTAL MAX 300W)

5. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
6. ——— : +B power supply
7. ——— : –B power supply
8. ▨ : Audio signal path (shown for L ch only)
9. ▭ : Front panel indication
10. ⬚ : Rear panel indication

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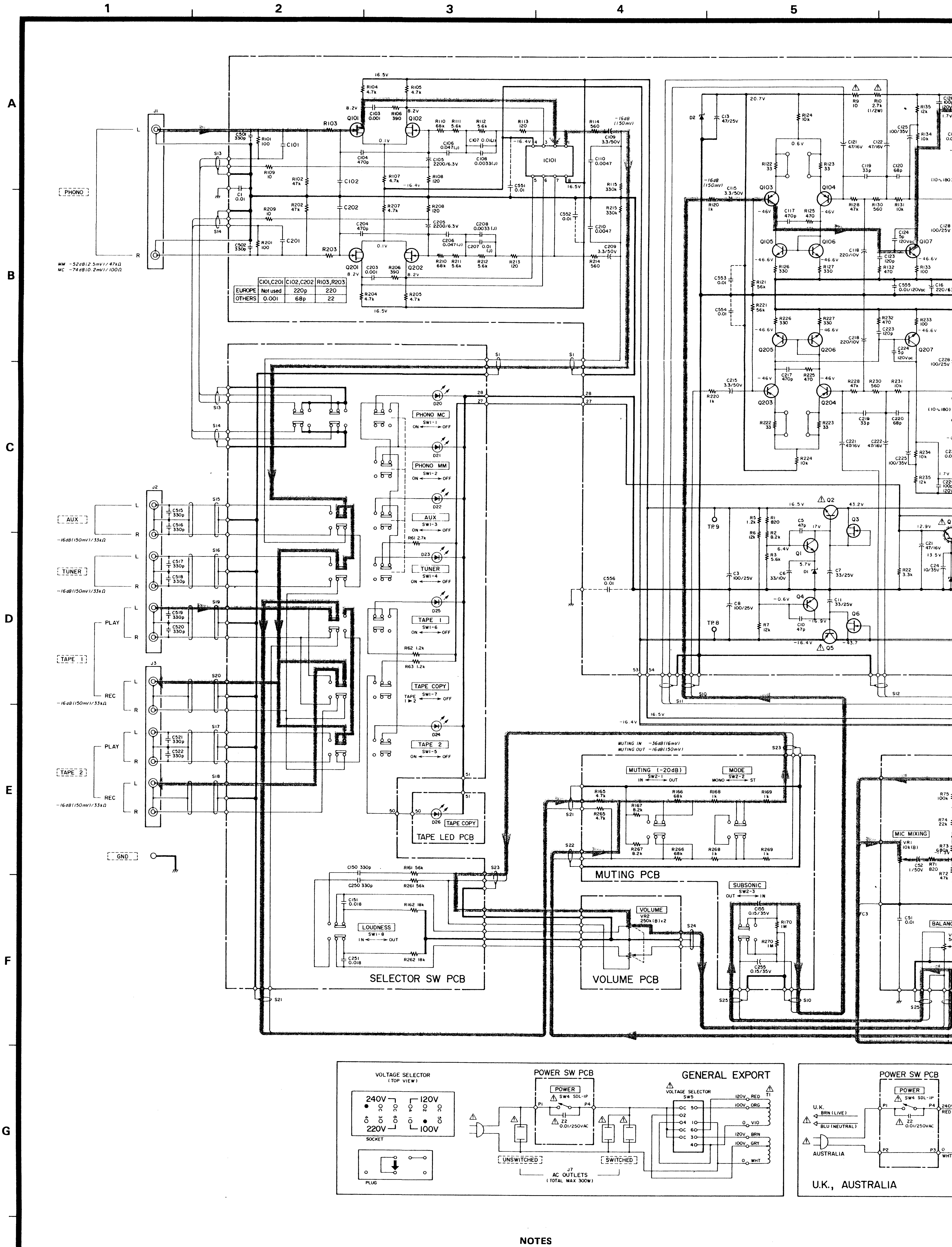
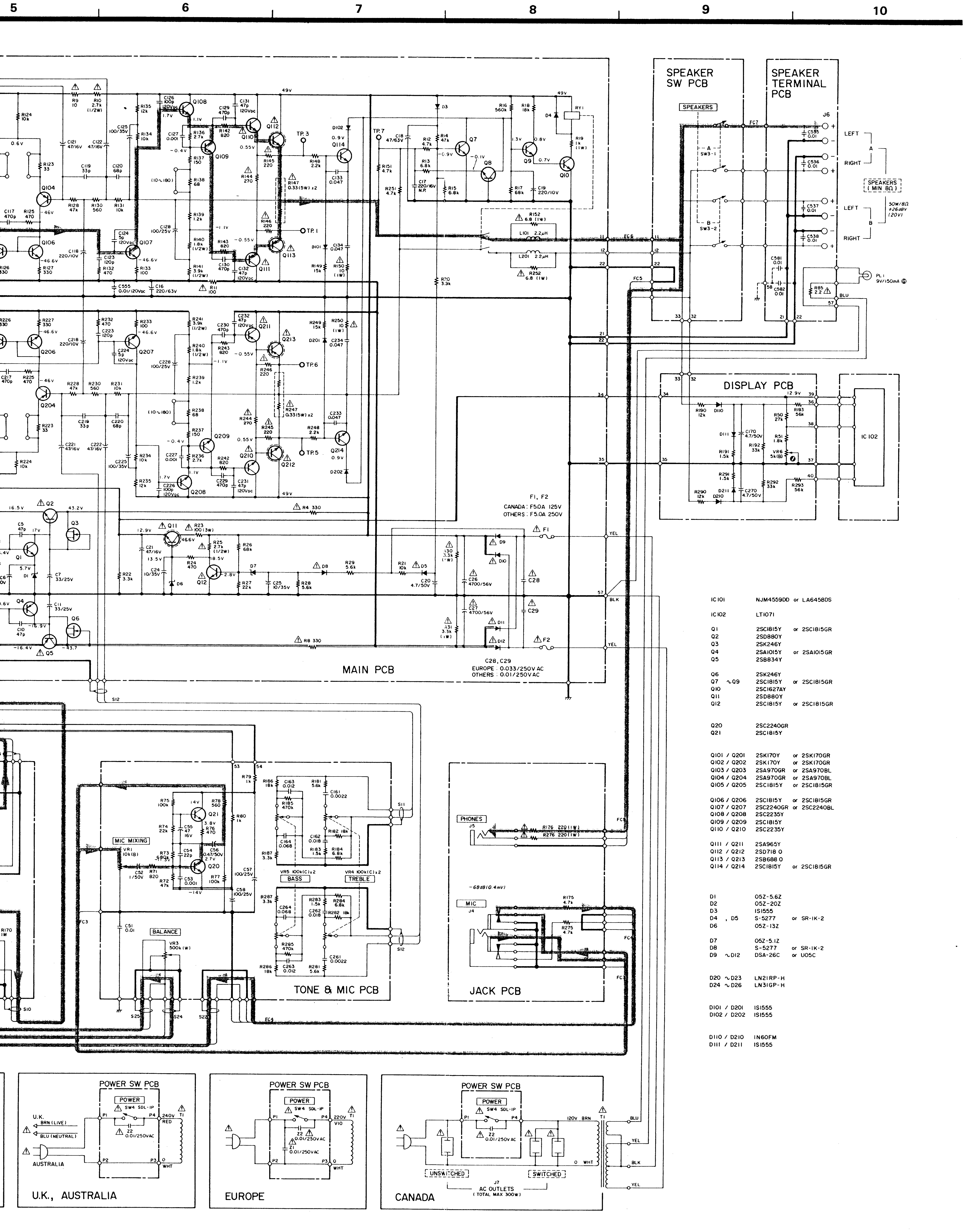
A-505 DC Integrated Stereo Amplifier

TEAC SCHEMATIC DIAGRAM A-707


1
2
3
4
5
A
B
C
D
E
F
G
H
PHONO
MM -52dB(2.5mV)/47kΩ
MC -74dB(0.2mV)/100Ω
J1
L
R
S13
S14
Q101
Q102
Q201
Q202
IC101
16.5V
8.2V
-16.4V
-16dB (150mV)
C101,C201 | C102,C202 | R103,R203
EUROPE | Not used | 220p | 220
OTHERS | 0.001 | 68p | 22
AUX
-16dB(150mV)/33kΩ
TUNER
-16dB(150mV)/33kΩ
TAPE 1
PLAY
REC
-16dB(150mV)/33kΩ
TAPE 2
PLAY
REC
-16dB(150mV)/33kΩ
GND
J2
J3
PHONO MC SW1-1 ON OFF
PHONO MM SW1-2 ON OFF
AUX SW1-3 ON OFF
TUNER SW1-4 ON OFF
TAPE 1 SW1-6 ON OFF
TAPE COPY SW1-7 TAPE 1→2 OFF
TAPE 2 SW1-5 ON OFF
D20
D21
D22
D23
D24
D25
D26 TAPE COPY
TAPE LED PCB
LOUDNESS SW1-8 IN OUT
SELECTOR SW PCB
MUTING IN -36dB(16mV)
MUTING OUT -16dB(150mV)
MUTING (-20dB) SW2-1 IN OUT
MODE SW2-2 MONO ST
MUTING PCB
VOLUME VR2 250k(B)×2
VOLUME PCB
SUBSONIC SW2-3 OUT IN
Q103
Q104
Q105
Q106
Q107
Q203
Q204
Q205
Q206
Q207
Q1
Q2
Q3
Q4
Q5
Q6
TP9
TP8
MIC MIXING VR1 10k(B)
BALANCE
VOLTAGE SELECTOR (TOP VIEW)
240V
120V
220V
100V
SOCKET
PLUG
POWER SW PCB
POWER SW4 SDL-1P
Z2 0.01/250VAC
GENERAL EXPORT
VOLTAGE SELECTOR SW5
UNSWITCHED
SWITCHED
J7 AC OUTLETS (TOTAL MAX 300W)
U.K.
BRN (LIVE)
BLU (NEUTRAL)
AUSTRALIA
U.K., AUSTRALIA

NOTES

1. All resistors are 1/4W, ±5%, unless otherwise noted.
   Resistor values are in ohms (k=1,000 ohms, M=1,000,000 ohms).
2. All capacitor values are in microfarads (p=pico-farads).
3. 0 dB≒1 V
4. The DC voltages given in each portion are reference values measured under no-signal conditions.
5. ⚠ Parts marke
   must always be
   appropriate parts
6. ——— : +B pow
7. - - - - : -B pov
8. ➔ : Audio
9. ▭ : Front
10. [- - -] : Rear p


5
6
7
8
9
10
SPEAKER SW PCB
SPEAKERS
SW3-1
SW3-2
SPEAKER TERMINAL PCB
J6
LEFT
RIGHT
A
B
SPEAKERS (MIN 8Ω)
50W/8Ω +26dBV (20V)
PL1 9V/150mA
DISPLAY PCB
IC102
MAIN PCB
F1, F2
CANADA : F5.0A 125V
OTHERS : F5.0A 250V
C28, C29
EUROPE : 0.033/250V AC
OTHERS : 0.01/250V AC
TONE & MIC PCB
MIC MIXING
BALANCE
BASS
TREBLE
JACK PCB
PHONES
MIC
-68dB(0.4mV)
POWER SW PCB
POWER
SW4 SDL-1P
U.K.
BRN (LIVE)
BLU (NEUTRAL)
AUSTRALIA
U.K., AUSTRALIA
EUROPE
CANADA
UNSWITCHED
SWITCHED
J7 AC OUTLETS (TOTAL MAX 300W)

IC101	NJM4559DD	or	LA6458DS
IC102	LT1071		
Q1	2SC1815Y	or	2SC1815GR
Q2	2SD880Y		
Q3	2SK246Y		
Q4	2SA1015Y	or	2SA1015GR
Q5	2SB834Y		
Q6	2SK246Y		
Q7 ∿Q9	2SC1815Y	or	2SC1815GR
Q10	2SC1627AY		
Q11	2SD880Y		
Q12	2SC1815Y	or	2SC1815GR
Q20	2SC2240GR		
Q21	2SC1815Y		
Q101 / Q201	2SK170Y	or	2SK170GR
Q102 / Q202	2SK170Y	or	2SK170GR
Q103 / Q203	2SA970GR	or	2SA970BL
Q104 / Q204	2SA970GR	or	2SA970BL
Q105 / Q205	2SC1815Y	or	2SC1815GR
Q106 / Q206	2SC1815Y	or	2SC1815GR
Q107 / Q207	2SC2240GR	or	2SC2240BL
Q108 / Q208	2SC2235Y		
Q109 / Q209	2SC1815Y		
Q110 / Q210	2SC2235Y		
Q111 / Q211	2SA965Y		
Q112 / Q212	2SD718 O		
Q113 / Q213	2SB688 O		
Q114 / Q214	2SC1815Y	or	2SC1815GR
D1	05Z-5.6Z		
D2	05Z-20Z		
D3	1S1555		
D4 , D5	S-5277	or	SR-1K-2
D6	05Z-13Z		
D7	05Z-5.1Z		
D8	S-5277	or	SR-1K-2
D9 ∿D12	DSA-26C	or	U05C
D20 ∿D23	LN21RP-H		
D24 ∿D26	LN31GP-H		
D101 / D201	1S1555		
D102 / D202	1S1555		
D110 / D210	1N60FM		
D111 / D211	1S1555		

ohms).

ues measured

5. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
6. ———— : +B power supply
7. ———— : –B power supply
8. ➔➔➔ : Audio signal path (shown for L ch only)
9. ▭ : Front panel indication
10. [- - -] : Rear panel indication

A-707 DC Integrated Stereo Amplifier